

# Chemistry 101 (Chemistry and Society) Spring, 2016

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Section 1: 8:30-9:35; MWF; 1/12/16 - 4/29/16; T 105

Section 2: 10:55-12:05; MWF; 1/12/16 - 4/29/16; T 105

- Student Outcomes:** The following outcomes are expected and will be assessed on exams and quizzes:

  - Demonstrate knowledge of fundamental principles of atomic structure, bonding, acids and bases, oxidation and reduction, and basic nomenclature
  - Demonstrate knowledge of fundamentals of nuclear chemistry
  - Demonstrate knowledge of key terminology in organic chemistry and biochemistry.
  - Demonstrate knowledge of key concepts in air and water quality as well as energy production and consumption.
  - Perform research on a topic and make a presentation intended to teach others about the key concepts.

GE learning outcome 1e will be assessed in this course using student performance on problems that are quantitative in nature on the comprehensive final exam.
- Texts:** Hill, J.W.; McCreary, T.W.; Kolb, D.K. **Chemistry for Changing Times**, 14<sup>th</sup> edition, Prentice Hall, 2010. This text is **required**.

**Mastering Chemistry Allocation:** This is a web based homework site. You are required to purchase access. If you bought a new book from the book store you already received access to Mastering Chemistry in your bundle.
- Internet Resources and Communication:** You will be required to access this course on Canvas. I will place chapter notes for the class on this sight that you will have to print out prior to class. The notes will contain blanks which you will be required to fill in during lecture. The notes may contain some information that is not in the text. I will have the notes for a given class on-line by 7 am the day of lecture. If I fail to provide the notes by such time, I will bring copies to class. You will also be required to access the Mastering Chemistry web site ([www.masteringchemistry.com](http://www.masteringchemistry.com)) in order to do your assigned homework.
- Assigned Problems:** You will be assigned a set of homework for every chapter to be completed online at the Mastering Chemistry web site. The assignment for each chapter will be due by 11:59 pm two days after the completion of a chapter in lecture. A late penalty of 10% per day past the due date will be enforced. These assignments are invaluable in preparing you for the in-class exams. I strongly encourage you to solve as many problems as possible as working problems is the only practical way for learning the material, and you should try your best to solve the problems before looking at the solutions. The online homework will count for 10% of your overall course grade. Register at [www.masteringchemistry.com](http://www.masteringchemistry.com) with the course ID **MCPERRY93758**.
- Group Work:** We will also have regular in-class group work and three in-class group assignments. Group work will count for 10% of your overall course grade.

6. **Office Hours:** I will make every effort to be available in my office during the times I've indicated below for office hours. You are welcome to schedule an appointment or take your chances and drop by, especially if you find these times inconvenient.

**Office Hours**

Monday: 2:45 – 4

Wednesday: 1:30 -2:45

Thursday: 2-3

7. **Help Sessions:** I will do my best to schedule some class time prior to each exam for me to answer any questions that you might have.
8. **Quizzes:** There will be three quizzes worth 20 points each given over the course of the semester. These quizzes can take on different forms, which may include but are not limited to the following: take home, in-class, in-class open book, or in-class group work. These quizzes will count for 5% of your overall course grade.
9. **Examinations:**
- a) **Major Exams:** Exams will cover material in the text and the lecture material as well as any other assigned material. There will be 3 major exams worth 100 points each. These will count for 45% of your overall course grade. There will be no exam scores dropped. **If you are caught cheating, I reserve the right to assign you a zero on that quiz or exam, and you could be subject to further action as stated in university policy. Makeup examinations will be given only for excused absences provided the appropriate documentation is provided.** You should make sure to contact me before your scheduled exam time. My phone (849-2976) has a 24-hour message service so you may leave a message (always leave a phone number where you may be reached). If you are unable to call me then have your roommate, parents, etc. make the contact for you. If you find that there are errors in the grading of your exam, you should come by my office as soon as possible.
- b) **Final Exam:** A mandatory, 150 point final exam will be given at the time dictated by the University schedule. The final will consist of one portion over material covered in class since exam 3 and one portion that will be comprehensive over the rest of the course. The final will count for 20% of your overall course grade.
- c) **Exam Schedule:** A tentative, but reasonably accurate, schedule for the 4 hour exams and final exam is given below. Changes in exam dates will be announced at least two days in advance. If you miss class and do not find out about the changes, that is your problem and it is not a valid reason for requesting a make-up exam. The date for the final exam is firm as set by University policy.

Exam #1	February 11 (Wednesday)
Exam #2	March 18 (Wednesday)
Exam #3	April 10 (Friday)
Final (Section 1)	May 6 (Wednesday 7:30-10 am)
Final (Section 2)	May 8 (Friday 10:30-1 pm)

10. **Course Grade:** Your overall course grade will be based on your performance in both the lecture and laboratory. The weighting of each course activity is shown below.

Homework	10%
Group Work	10 %
Quizzes	5%
Hour exams	45% (15% each)
Final	15%
Group Project	15%

Letter grades will be assigned at the end of the course based on your percentage of total possible points, according to the following APPROXIMATE scale:

A	90 – 100%
B	80 – 90%
C	70 – 80%
D	60 – 70%
NC/F	< 60%

(+) and (–) grades will be assigned within each bracket. (There is no A+ grade.)

**11. Course Syllabus:** Listed below is a syllabus with approximate lecture coverage and approximate examination points indicated.

Date	Chapter	Content	Approximate % of Lecture
1-12		Introduction	100
1-13	1	Chemistry	100
1-15	1	Chemistry	100
1-20	1	Chemistry	100
1-22	2	Atoms	100
1-25	2	Atoms	100
1-27	3	Atomic Structure	100
1-29	3	Atomic Structure	100
2-1	4	Chemical Bonds	100
2-3	4	Chemical Bonds	100
2-5	4	Chemical Bonds	100
2-8		Review/Activity #1	100
2-10		<b>EXAM #1 (Chpt. 1-4)</b>	
2-12	5	Chemical Accounting	100
2-15	5	Chemical Accounting	50
	6	Gases. Liquids. Solids	50
2-17	6	Gases. Liquids. Solids	100
2-19	6	Gases. Liquids. Solids	50
	7	Acids and Bases	50
2-22	7	Acids and Bases	100
2-24	7	Acids and Bases	100
2-26	8	Oxidation and Reduction	100
2-29	8	Oxidation and Reduction	100
3-2		Review/Activity #2	100
3-4		<b>EXAM #2 (Chpt. 5-8)</b>	
3-14	9	Organic	100
3-16	9	Organic	100
3-18	9	Organic	100
3-21	11	Nuclear Chemistry	100
3-23	11	Nuclear Chemistry	100

Date	Chapter	Content	Approximate % of Lecture
3-30	16	Biochemistry	100
4-1	16	Biochemistry	100
4-4	16	Biochemistry	100
4-6		Review/ Activity #3	100
4-8		<b>EXAM #3 (Chpt. 9,11,16)</b>	
4-11	15	Energy	100
4-13	15	Energy	100
4-15	15	Energy	100
4-18		Work on Presentations	100
4-20		Work on Presentations	100
4-22		Group Presentations	100
4-25		Group Presentations	100
4-27		Group Presentations	100
4-29		Final Exam Review	100
5-2		<b>FINAL EXAM (Section 2: 10:30-1 pm)</b>	
5-6		<b>FINAL EXAM (Section 1: 7:30-10 am)</b>	

12. **Academic Honesty:** Students should demonstrate academic honesty by doing original work and by giving appropriate credit to the ideas of others. Academic dishonesty is the act of presenting information, ideas, and/or concepts as one's own when in reality they are the results of another person's creativity and effort. A faculty member who believes a situation involving academic dishonesty has been detected may assign a failing grade for that assignment or examination, or, depending on the seriousness of the offense, for the course. Faculty should follow and students may appeal using the procedure in the university Catalog. See Academic Policies for definitions of kinds of academic dishonesty and for further policy information.
13. **Academic Accommodations:** If you have a diagnosed disability, please contact PLNU's Disability Resource Center (DRC) within the first two weeks of class to demonstrate need and to register for accommodation by phone at 619-849-2486 or by e-mail at DRC@pointloma.edu. See Disability Resource Center for additional information.
14. **Attendance and Participation:** Regular and punctual attendance at all classes is considered essential to optimum academic achievement. If the student is absent from more than 10 percent of class meetings, the faculty member can file a written report which may result in de-enrollment. If the absences exceed 20 percent, the student may be de-enrolled without notice until the university drop date or, after that date, receive the appropriate grade for their work and participation. See Academic Policies in the Undergraduate Academic Catalog.