

Chemistry 102: General Chemistry II **Section 8391 & 8392, Spring 2017**

Contact Info: Dr. Thi (Kathy) Nguyen

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Lecture: T & Th 11:10 am – 12:35 pm in CFS 91125

Workshops: F 10:00 am – 12:05 pm in CFS 91023 (section 8391)

Th 1:00 pm – 3:05 pm in CFS 91023 (section 8392)

Office Hours: T 12:40 – 1:40 pm & F 12:10 – 1:00 pm in CFS 92032

Welcome to Chemistry 102. Chemistry 102 is a continuation of Chemistry 101. Topics covered include a detailed study of chemical equilibrium as applied to analytical chemistry including solubility, complex ion, and redox equilibria, pH, buffers, weak acids, weak bases, monoprotic and polyprotic systems; thermodynamics; electrochemistry; the solid state; the relationship between structure and properties; kinetics; coordination chemistry and ligand field theory; visible spectroscopy; and the chemistry of selected metals and nonmetals. The laboratory work continues to develop skills in observation, the use of chemical glassware and equipment, making deductions from observations, analyzing results and communicating them in a written laboratory report.

Student Learning

Outcomes:

1. Explain and design solutions to quantitative and qualitative problems by applying the concepts of kinetics, thermodynamics and dynamic equilibrium.
2. Implement written protocols to carry out basic chemical laboratory procedures independently, efficiently, and safely and interpret the resulting data.
3. Identify and analyze simple three dimensional chemical structures.

Prerequisites: Chemistry 101. It is strongly recommended that you take English 28 before you attempt this class in order for you to have the writing skills necessary for this class.

Required

Texts:

1. Tro, N. J. Chemistry: A Molecular Approach, 4th Custom Edition for L. A. Pierce College, Pearson 2011. (3rd Edition is OK)
2. Mastering Chemistry for our text.

Canvas:

Canvas is the class web page we will be using through Pierce College. You are responsible for using Canvas and monitoring all information posted on the site pertaining to this course. Many handouts and other important information will be posted on this site. You are responsible for checking your LACCD email regularly as handouts and other important information may be emailed.

Workshops: Workshops meet two hours each week. You are required to attend the workshop in which you are enrolled. You are graded on participation and effort. The workshops will focus on group work and improving problem solving skills. We will frequently use Mastering Chemistry during workshop time. Please bring a laptop computer if you have one you like to bring to school. We have a class set of laptop computers for students who prefer to use a Pierce Computer. *Please complete assigned reading from the text before you attend each workshop. Workshop is graded based on participation and effort.*

Homework: All homework is assigned and graded through Mastering Chemistry.

Laboratory: You are required to attend the lab section in which you are enrolled. Refer to lab instructor's syllabus for more details.

Attendance: The guidelines in the course catalog apply to this class: Any student who has unexcused absences equaling one week's worth of class time prior to census date will be excluded. **It is your responsibility to drop this class if necessary.** Three lateness's will count as an absence. Please contact the instructor if you know you are going to miss several days of class. Please read the attendance regulations printed in the *Schedule of Classes*.

Important

Dates: The last day to add a class w/ an instructor add permit is **February 20**
The last day to drop this class without incurring fees is **February 20**
The last day to drop this class without a "W" is **February 20**
The last day to drop this class with a "W" is **May 7**

Accommodations:

Students with conditions that may require classroom or test accommodations are encouraged to contact the office of Special Services. Special Services is available to facilitate, verify and set up reasonable accommodations. The Special Services office is located in the Student Services Building, 1st floor, and their phone number is (818) 719-6430.

Religious Holidays:

There are a variety of religious holidays occurring during any given semester. While many of these are neither Federal or State sanctioned holidays, they are days of religious observance that may impact some students' attendance. If you think that you will miss a lecture, lab, assignment due date, or exam because you will be practicing your religion on a particular day, you need to notify your instructor at least two weeks in advance. Official notification will take the form of a note, written and signed by you, which specifies the anticipated date(s) of your absence. A student who provides this information by the deadline will be able to reschedule missed exams or work, and their absence will not adversely affect their attendance record. Failure to provide proper notification by the end of the second week will negate the student's option to reschedule or receive credit for missed activities.

Academic Dishonesty and Conduct:

Please be honest and respectful, it's expected by your fellow students and me. Cheating in any form on an assignment will, **at a minimum**, result in a zero grade on that assignment and filing of an Academic Dishonesty Report Form describing the incident with the Vice President of Student Affairs. Prior or future cheating incidents anywhere in the College could result in expulsion. Cheating includes: the copying or exchanging of information during exams or quizzes, including letting someone copy your material; using banned materials/information/devices during exams or quizzes; and plagiarism (copying someone else's work, lab data or writing and turning it in as your own). Exact reproduction of written materials from other students on any lab report will result in all parties receiving a zero. Please read more about Student Conduct and Academic Integrity starting on P. 33 of the 2014-16 Pierce General Catalog at the bottom of <http://www.piercecollege.edu/schedules/catalog.asp>.

Grading Policy and Scale:

1. Exams (<u>3 total</u>)	40 %
2. Workshop and Homework	10 %
3. Laboratory	20 %
4. Final	30 %

TOTAL **100 %**

90 – 100 % = A

80 – 89 % = B

70 – 79 % = C

60 – 69 % = D

0 – 59 % = F

Tentative Lecture and Exam Schedule:

Week	Tuesday		Thursday	
1	02/07	Chapter 4 (Review)	02/09	Chapter 14: Chemical Kinetics
2	02/14	Chapter 14	02/16	Chapter 14
3	02/21	Chapter 15: Chemical Equilibrium	02/23	Chapter 15
4	02/28	Chapter 15	03/02	Chapter 16: Acids & Bases
5	03/07	Exam (14, 15) *	03/09	Chapter 16
6	03/14	Chapter 16	03/16	Chapter 16
7	03/21	Chapter 17: Aqueous Ionic Equilibrium	03/23	Chapter 17
8	03/28	Chapter 17	03/30	Chapter 17
9	04/04	Spring Break	04/06	Spring Break
10	04/11	Exam (16, 17) *	04/13	Chapter 18: Free Energy & Thermodynamics
11	04/18	Chapter 18	04/20	Chapter 19: Electrochemistry
12	04/25	Chapter 19	04/27	Chapter 19
13	05/02	Chapter 19	05/04	Chapter 25: Transition Metals & Coord. Compounds
14	05/09	Exam (18, 19) *	05/11	Chapter 25
15	05/16	Chapter 25	05/18	Chapter 21: Organic Chemistry
16	05/23	Chapter 21	05/25	Review
17	05/30	FINAL 11:00 am – 1:00pm (comprehensive)*		

* NO MAKE UP EXAM and FINAL. Any missing exam and/or final will be assigned ZERO.

Enter your Canvas course

1. Sign in to Canvas and enter your Canvas course.
2. Do one of the following:
 - > Select any Pearson link from any module.
 - > Select **MyLab & Mastering** in the Course Navigation, and then select any course link on the Pearson page.

Get access to your Pearson course content

1. Enter your Pearson account **username** and **password** to **Link Accounts**.
You have an account if you have ever used a Pearson MyLab & Mastering product, such as MyMathLab, MyITLab, MySpanishLab, MasteringBiology or MasteringPhysics.
 - > If you don't have a Pearson account, select **Create** and follow the instructions.
2. Select an access option:
 - > Enter the access code that came with your textbook or was purchased separately from the bookstore.
 - > Buy access using a credit card or PayPal account.
 - > If available, get temporary access by selecting the link near the bottom of the page.
3. From the You're Done page, select **Go to My Courses**.

Note: We recommend you always enter your MyLab & Modified Mastering course through Canvas.

Get your computer ready

For the best experience, check the system requirements for your product at:
<http://www.pearsonmylabandmastering.com/system-requirements/>

Need help?

For help with MyLab & Modified Mastering with Canvas, go to:
<http://help.pearsoncmg.com/mylabmastering/canvas/student/en/index.html>

Note:

Name: _____ Email Address: _____

1. I am (circle one) ENROLLED OR NOT-ENROLLED, but want to add in this section of Chemistry 102.

2. Have you taken Chem 102 before? YES OR NO

3. What is your planned major and current career goal?

4. What is your reason for taking this class? (GE fulfillment, prerequisite for a class, etc.). _____

5. If you took chemistry 101 at Pierce, who was your instructor? _____

6. What grade did you get in chemistry 101? _____

7. Do you intend to transfer to a 4-year school? _____ When, which school?

8. What is the highest educational degree you have achieved?

_____ HS diploma _____ AA degree _____ Bachelors _____ Graduate _____ other

9. How many total units are you taking this semester? _____ Which classes?

10. Do you attend another college or high school? _____ Which one? _____

11. What is your biggest concern about being successful in this class?

12. Do you have any special needs that I should be aware of that would require special consideration in this class? _____

13. How many hours a day do you think are required (outside of class) in order to be successful in this class? _____

14. How many hours a day are you willing to commit (outside of class) to this class?

15. What methods do you plan on using to succeed?

16. I want to help you succeed. What do you think are my responsibilities as your instructor to help you succeed?

17. What are your responsibilities to help you succeed? _____

18. What grade do you expect to earn in this class? _____