

CHEMISTRY 110

Lecture #20007

Fall 2019

Instructor: Dr. Sean Bonness

I the undersigned, have received and read the Chemistry 110 Lecture and Laboratory Syllabus and Information.

Signature: _____

Printed Name: _____

Date: _____

CHEMISTRY 110 LECTURE SYLLABUS - Fall 2019

Instructor: Dr. Sean Bonness

Lecture: TuTh 9:30 am - 11:00 am in Room S-219
Lab: see Lab syllabus for scheduled day and time.
Office Hours: MW 5-5:30 pm, TuTh 1-2 pm
Office: S-210 Office Phone: 562.860.2451 x 2693
E-Mail: sbonness@cerritos.edu
Website: http://cms.cerritos.edu/chemistry/chem_110
School Address: 11110 Alondra Blvd. Norwalk, CA 90650

Prerequisites: MATH 80 or MATH 80B or equivalent with Pass or "C" or higher or satisfactory completion of the Math Placement Process.

Recommendation: It is strongly recommended that the preceding prerequisite be completed within four years prior to the date of enrollment in CHEM 110.

REQUIRED MATERIALS:

1. Introductory Chemistry, 6th Edition, by Nivaldo J. Tro (You may use an older edition) including: Mastering Chemistry with Pearson eText 2.0 Student Access Kit
2. Scientific Calculator
3. Safety in the Chemistry Laboratory by Cerritos Chemistry Dept. (Online at the following link: <http://cms.cerritos.edu/chemistry>)
4. Safety goggles with splash protection in compliance with ANSI 287.1-1989 as required by California State Law (see laboratory syllabus)
5. Lab Apron (see laboratory syllabus)

LEARNING OUTCOMES:

- Students incorporate chemical principals to explain lab results and vice versa.
- Student use dimensional analysis to perform unit conversions and chemical calculations.
- Students will use chemical information to solve stoichiometric problems in solid state, solutions and gaseous state.
- Students write correct chemical formulas, predict balanced equations, net ionic equations and total ionic equations.

LECTURE OUTLINES AND WORKSHEETS:

- Lecture outlines and worksheets are posted on: http://cms.cerritos.edu/chemistry/chem_110
You need to print out the lecture outlines and worksheets and bring them to lecture with you.
- All chapters assigned in the schedule are from the textbook, Introductory Chemistry, Tro 6th edition.

ONLINE HOMEWORK:

1. Online homework is required for this class. I will drop 1 online homework assignment. Late homework will not be accepted however you will still have access to the homework the entire semester for review and practice.

2. Access online homework through Canvas. See instructions below

METHODS OF EVALUATION:

- Hour Exams: Five exams each worth 100 points. The lowest exam will be dropped. All exams are closed book/closed notes. All books and papers must be out of sight. Complete setups must be given in order to receive credit. (i.e. no credit for answers alone.) *No Make-up exams will be given.*
- In Class Quizzes: In Class Quizzes are worth 10-20 pts. each. One quiz will be dropped. *No Make-up quizzes will be given.*
- Online homework: Online homework is required for this class. One online homework assignment will be dropped during the course of the semester. Late online homework will not be accepted, however you will still have access to the homework the entire semester for review and practice.
- Errors in grading: You have one week after the return of your exams or quizzes to see me to correct any grading errors.
- Worksheets: Worksheets and worksheet answer keys are found on course website. Worksheet problems will not be collected. It is your responsibility to do all problems and check all set-ups and answers (See course website). Similar problems may be found on exams.
- Final: The final will be worth 150 points.
- Laboratory: See lab syllabus.
- Lecture Grade Distribution:

<u>Activity</u>	<u>Percentage of Final Grade</u>
• Exams	40%
• Quizzes	10%
• Final Exam	15%
• Online Homework	10%
• Laboratory	25%

- GRADING SCALE:

<u>PERCENTAGE</u>	<u>GRADE</u>
90 and above	A
80-89	B
70-79	C
60-69	D
59 and below	F

- COURSE GRADE DISTRIBUTION: LECTURE = 75% and LABORATORY = 25%
To achieve a "C" or greater for Chem. 110, you must obtain an overall grade of 70% and pass the lecture and laboratory portion, and pass the lecture final. A Failing Score (59% or below) in Lecture, Laboratory or on the Lecture Final will result in a course grade no higher than a "D" even if your overall grade is above 70%.

Withdrawals:

If you find it necessary to drop the course, you must follow the steps outlined below in order to receive a "W" grade. **DO NOT JUST STOP ATTENDING CLASS.**

1. Come in and discuss the situation with the instructor.
 2. Use "My Cerritos" or Fill out the official withdrawal form in the ADMISSIONS OFFICE.
- November 22, 2019** is the last day to withdraw, but a "W" will appear on your transcript.

Note: The last steps are mandatory in order to receive a "W".

Accessibility: It is the college's policy to provide, on an individual basis, reasonable accommodations to student who have disabilities that may affect their ability to participate in course activities or meet course requirements. Students with disabilities are encouraged to come to my office hour or talk to me after class to discuss your individual needs for accommodations. If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact both your instructors and the Disabled Student Programs and Services at (562) 860-2451 ext. 2335, as early as possible in the term.

Attendance/Performance: Past experience has shown that students must attend lecture to achieve a good course grade. It is your responsibility to regularly attend lecture and laboratory. The instructor may drop you if you fail to attend 3 class sessions. (One hour more than two class sessions, actually.)

First Week Attendance: You must attend both lecture and lab the first week of the semester. (1st and 2nd day of the semester) unless excused by the instructor. **If you have any unexcused absences during the first week, you will be dropped from the course.** It is your responsibility to contact the instructor to be excused.

Absence: Students are responsible for ALL work, announcements, handouts and material missed during an absence.

Assistance during an absence: Contact me by phone or e-mail so that I can keep you informed of class work including announcements of due dates of lab work, handouts, quiz/exam dates.

Laboratory: You must attend your assigned lab time. Make-up labs may be authorized by your lab instructor.

Cheating policy:

See your Cerritos College Schedule of Classes: Academic Honesty/Dishonesty Policy. If you cheat on a quiz, worksheet, lab report or exam you will receive a zero grade for that assignment and it will not be dropped. If the behavior is repeated, you will receive a F grade in the course.

Use of electronic devices:

There is to be no use of electronic devices other than calculators during class time unless assigned by the instructor. You may not talk on the phone or text in the classroom. Turn off your phone during class. If use of a communication device occurs during class you may be asked to leave class immediately and this includes dismissal during quizzes or exams, which cannot be made up. You may return the following class meeting. You may not take photos or videos or any audio recording during class without instructor permission. Ask first.

Word to the Wise:

Come prepared. It is your responsibility to come to lecture, lab and exams with the proper material (paper, pencils, calculator, text, lab sheets...etc.)

STUDY HABITS:

You need to keep up with the assignments daily; last minute cramming in chemistry does not work! The main reason students do not successfully complete Chemistry 110 is because they underestimate the amount of effort, time and work the class requires. You will probably need to study several hours a week for this class. For this reason, the online homework assignments were designed to train you to practice the skills demonstrated in class. Many students have never been expected to study before or have poor study skills or time management skills. Many of the students in this class desire to go to medical school or pharmacy school or become engineers. These types of educational and professional goals are more competitive than other degrees and require more effort, time, and better grades. It is important that you develop good study habits now so that you maintain the kind of GPA that will help you fulfill your educational goals. I want to help you succeed! But I cannot do it for you. It may seem that I come across as very strict, but I am trying to train you and motivate you to work hard and be disciplined. My goal is that you will soon no longer require outside motivation. You must realize that it takes hard work and internal motivation to be successful. You need to keep up with the assignments daily: last minute cramming in chemistry does not work! It is also important that you let me know if you are struggling in any way. I want to encourage you and help you. **When doing the online homework, you are expected to use pencil and paper to do the problems so that you can refer to your work later. Also, the process of how you solved the problems is as important as the answer. So, you need to write out your setups as you do the online assignments.**

I want you to know that my goal is for you to succeed not just in Chem. 110 but to succeed in life. If you need help with chemistry or any other problem you have please know I am available, when I can be, to help you, or just to listen to you. If you have a problem of any kind that may affect your chemistry work please tell me as early as possible so that I can do whatever I can to assist you.

Substances and impairment: In order to safely perform experiments and in the significant interest in the safety of others it is very important that one be completely alert when in the lab. If you are observed to be under the influence of any substance, whether it be alcohol, medicine, or marijuana or any other inhibitor which influences your alertness, cognition and/or coordination you are not authorized to perform the lab, will be asked to leave the lab room and the Office of Student Conduct and Grievances may be notified. Should you have any concerns about this notice, please notify the instructor immediately.

CHEM 110 Tentative Lecture Schedule Fall 2019 (TRO 6th Edition)

	Week of	Lecture topic	Chapter In Text	Chapter Sections To Read	Assigned Textbook Problems (found at back of chapter)
Unit 1	Aug 19	Introduction Measurements	1	all	
	Aug 26	Measurements and Dimensional Analysis	2	all	2: 5,7,17,33,37,41,45,49,57,61,65,69,73,75,83,85,89,91,95,97,101,103,109,115
	Sep 2	Matter & Energy	3	3.1—3.10	3: 33,35,37,39,41,61,63,65
			4	4.5-4.6	4: 41,51,53,57,59,61,63,67,69
Unit 2	Sep 9	Atomic Structure Electron Structure	4	All	4: 5,15,33,35,43,75,79,83,87,89,93,109, 113
	Sep 16	Chemical Nomenclature	5	all	5: 9,35,37,45,49,51,53,55,59,61,65,69,71,73,77,81,97,99
	Sep 23	Chemical Formula Calculations	6	all	6: 11,19,25,27,29,37,47,51,59,63,67,71,75,81,87,91,95,97,99,119,121,125,127
	Sep 30	Electrons and Chemical Bonding	9	9.4-9.9 later end of unit	9: 45,49,53,55,57,63,69,73,89,93,99
			10	10.1—10.5	10: 47,49,53
Unit 3	Oct 7	Intermolecular Forces	10	10.8	10: 77,79,81,83,85,87
			12	12.6	12: 49,51,53,55,59,61,63,91,95
	Oct 14	Solutions	7	7.5	7: 61, 63
			13	13.1-13.7	13: 7,11,13,31,37,41,47,49,53,61,67,71,77,79,81,85,89,91,93,99,107,109,113,115,117,119
Oct 21	Acids, Bases, Salts	14	14.1— 14.5, 14.7— 14.9	14: 17,19,39,53,57,91,97,99	
Unit 4	Oct 28	Chemical Reactions	7	7.1-7.6, 7.8—7.10	7: 3,5,7,37,43,47,49,57,59,63,71,85,87,89,93,95,97
			16	16.5	16: 77
	Nov 4	Net Ionic Equations	7	7.7	7: 73,75
			14	14.6	14: 51,53
	Nov 11	Equation Stoichiometry	8	All	8: 25,27,29,33,39,41,47,49,51,55,57,61,65,81,85,87,91,93
13			13.8	13: 85,91,93,99,107,109,113,115,117,119	
Unit 5	Nov 18	Gases	11	all	11: 25,51,55,59,61,69,71,75,77,83,89,91,93,95,97,101,103,105,109,111,113,115,117,121
	Nov 25	Energy & Changes of State	3	3.10 - 3.12 12.4, 12.5	3: 71,75,79,85,91,93,95
	Dec 2	Liquids and Solids	12	12.1 -12.3, 12.7, 12.8	12: 45,53,55,59,65,95
	Dec 9	REVIEW			The assigned textbook problems are not collected
	Week of Dec 16 are FINAL EXAMS				
* Final Exam: You must pass lecture, lab and lecture final and obtain a 70% overall to obtain a grade of a "C" or higher [in other words if you fail lecture or lab or the lecture final (59% and below), your highest grade will be a "D"]					

Mastering Chemistry

Student Registration Instructions for Canvas

First, 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 a MyLab and Mastering link in the Course Navigation. Next, select **Open MyLab and Mastering** or a content link.

Next, 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 MyLab or Mastering product.
 - 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 that you purchased separately from the bookstore.
 - If available for your course,
 - Buy access using a credit card or PayPal.
 - Get temporary access.

If you're taking another semester of a course, you skip this step.

3. From the You're Done page, select **Go to My Courses**.

Note: We recommend you always enter your Mastering Chemistry course through Canvas.

Get your computer ready

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

Need help?

For help with Mastering Chemistry for Canvas, go to https://help.pearsoncmg.com/integration/cg/canvas/student/en/content/get_started.htm
