CHEMISTRY 110 - FALL 2016

Course # 20006 (Lecture) / # 20009 (Lab)

Instructor:

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

Signature:_______________________________________
Printed Name:_____________________________________
Date:______________________
CHEMISTRY 110 – FALL 2016

Course # 20006(Lec) /20009(Lab)

Instructor: Jeff Bradbury

Lecture: M/W 11-12:30 PM in Room S-219
Lab: W 12:30-3:30 PM in Room S-219
Office Hours: Mon 4-5 pm Tue 3:30-4:30 pm Wed 10-11 am
Office: S-210 Office Phone: 562.860.2451 x
E-Mail: jbradbury@cerritos.edu
Website: www.cerritos.edu/jbradbury

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:

2. Scientific Calculator
3. Safety in the Chemistry Laboratory by Cerritos Chemistry Dept. (Online) 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 ground rules)
5. Lab Apron (see laboratory ground rules)

LEARNING OUTCOMES:

1. Apply knowledge of microscopic (molecular) interactions to explain or predict macroscopic properties.
2. Apply critical thinking strategies in solving algorithmic and conceptual problems in chemistry. Incorporate chemical principles to explain lab results and vice versa.
3. Apply laboratory skills to perform chemical analysis including collection of data, computations, and statistical analysis of the results.
4. Use effective written communication of chemical information.
5. Make effective use of current technology to collect and analyze data

LECTURE OUTLINES AND WORKSHEETS:

1. Lecture outlines and worksheets are posted on my webpage: www.cerritos.edu/jbradbury You need to print out the lecture outlines and worksheets and bring them to lecture with you.
2. All chapters assigned in the schedule are from the textbook, Introductory Chemistry, Tro 4th 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. You need to buy the text with the online access code or go online and buy the online access code.
3. Access online homework at: www.masteringchem.com/ (See page 7 of this syllabus)

METHODS OF EVALUATION:
• Hour Exams: Five exams, each worth 100 points. The lowest exam score will be dropped. All exams will be 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. 1 Quiz will be dropped. No Make-up quizzes will be given.
• Online homework: Online homework is required for this class. I will drop 1 online homework assignment 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 1 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 my website. Worksheet problems will not be collected. It is your responsibility to do all problems assigned and check all set-ups and answers (See my website!). Similar problems will be found on exams.
• Final: The final will be worth 150 points.
• Laboratory: See lab handout
• Lecture Grade Distribution:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exams</td>
<td>400</td>
</tr>
<tr>
<td>Quizzes</td>
<td>100 (approx.)</td>
</tr>
<tr>
<td>Final Exam</td>
<td>150</td>
</tr>
<tr>
<td>Online Homework</td>
<td>100</td>
</tr>
</tbody>
</table>

• GRADING SCALE:

<table>
<thead>
<tr>
<th>PERCENTAGE</th>
<th>GRADE</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 and above</td>
<td>A</td>
</tr>
<tr>
<td>80-89</td>
<td>B</td>
</tr>
<tr>
<td>70-79</td>
<td>C</td>
</tr>
<tr>
<td>60-69</td>
<td>D</td>
</tr>
<tr>
<td>59 and below</td>
<td>F</td>
</tr>
</tbody>
</table>

• COURSE GRADE DISTRIBUTION: LECTURE = 75% & LABORATORY = 25%

To achieve a "C" or greater for Chem. 110 you must obtain an overall grade of 70% and Pass the lecture portion and Pass the 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 18, 2016 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 an 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. 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.
<table>
<thead>
<tr>
<th>Week of</th>
<th>Lecture topic</th>
<th>Chapter In Text</th>
<th>Chapter Sections To Read</th>
<th>Assigned Textbook Problems ~ (found at back of chapter)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug 18</td>
<td>Introduction Measurements</td>
<td>1</td>
<td>all</td>
<td>2: 5,7,17,33,37,45,49,57,61,65,69,73,75,83,85,89,91,97,99,109,113</td>
</tr>
<tr>
<td>Aug 25</td>
<td>Measurements and Dimensional Analysis</td>
<td>2</td>
<td>all</td>
<td>3: 33,35,37,39,41,61,63,65c</td>
</tr>
<tr>
<td>Sept 1</td>
<td>Matter &amp; Energy</td>
<td>3</td>
<td>3.1—3.10</td>
<td>4: 41,51,57,59,61,63,67,69</td>
</tr>
<tr>
<td>Sept 8</td>
<td>Atomic Structure Electron Structure</td>
<td>4</td>
<td>4.1—4.6, 4.7—4.9</td>
<td>4: 5,15,33,35,43,53,75,79,83,87,89,93,109,113</td>
</tr>
<tr>
<td>Sept 15</td>
<td>Chemical Bonding</td>
<td>10</td>
<td>10.1—10.5</td>
<td>10: 47,49,53</td>
</tr>
<tr>
<td>Sept 22</td>
<td>Chemical Nomenclature</td>
<td>5</td>
<td>all</td>
<td>5: 9,35,37,45,49,51,53,55,59,61,65,69,71,73,77,81,97,99</td>
</tr>
<tr>
<td>Sept 29</td>
<td>Chemical Formula Calculations</td>
<td>6</td>
<td>all</td>
<td>6: 11,19,25,27,29,37,47,51,59,63,67,71,75,81,87,91,95,97,99,119,121,125,127</td>
</tr>
<tr>
<td>Oct 6</td>
<td>Intermolecular Forces</td>
<td>10</td>
<td>10.8</td>
<td>10: 77,79,81,83,85,87</td>
</tr>
<tr>
<td>Oct 13</td>
<td>Solutions</td>
<td>7</td>
<td>7.5</td>
<td>7: 63,65</td>
</tr>
<tr>
<td>Oct 27</td>
<td>Chemical Reactions</td>
<td>7</td>
<td>7.1-7.6, 7.8-7.10</td>
<td>7: 3,5,7,37,45,49,51,59,61,65,73,87,89,91,95,97,99</td>
</tr>
<tr>
<td>Nov 3</td>
<td>Equation Stoichiometry</td>
<td>8</td>
<td>all</td>
<td>8: 25,27,29,33,39,41,47,49,51,55,57,61,65,81,85,87,91,93</td>
</tr>
<tr>
<td>Nov 10</td>
<td>Net Ionic Equations</td>
<td>7</td>
<td>7.7</td>
<td>7: 75,77</td>
</tr>
<tr>
<td>Nov 17</td>
<td>Gases</td>
<td>11</td>
<td>all</td>
<td>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</td>
</tr>
<tr>
<td>Nov 24</td>
<td>Liquids and Solids</td>
<td>12</td>
<td>12.1-12.5-12.7</td>
<td>12: 45,53,55,59,65,95</td>
</tr>
<tr>
<td>Dec 1</td>
<td>Energy &amp; Changes of State</td>
<td>3</td>
<td>3.10—3.12</td>
<td>3: 71,75,79,85,91,93,95</td>
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<tr>
<td>Dec 8</td>
<td>REVIEW</td>
<td>The assigned textbook problems are not collected</td>
<td></td>
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**Week of December 15 FINAL EXAM**

*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"]
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<td><strong>Oct 13</strong></td>
<td>Solutions</td>
<td>7</td>
<td>7.5</td>
<td>7: 61,63</td>
</tr>
<tr>
<td><strong>Oct 20</strong></td>
<td>Acids, Bases, Salts</td>
<td>14</td>
<td>14.1—14.5, 14.7—14.9</td>
<td>14: 17,19,43,57,61,97,103,105</td>
</tr>
<tr>
<td><strong>Oct 27</strong></td>
<td>Chemical Reactions</td>
<td>7</td>
<td>7.1—7.6, 7.8—7.10</td>
<td>7: 3,5,7,35,43,47,49,57,59,6371,85,87,  89,93,95,97</td>
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<td>Equation Stoichiometry</td>
<td>8</td>
<td>all</td>
<td>8: 25,27,29,33,39,41,47,49,51,55,57,61,65,68,81,  85,87,91,93</td>
</tr>
<tr>
<td><strong>Nov 10</strong></td>
<td>Net Ionic Equations</td>
<td>7</td>
<td>7.7</td>
<td>7: 73,75</td>
</tr>
<tr>
<td><strong>Nov 17</strong></td>
<td>Gases</td>
<td>11</td>
<td>all</td>
<td>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</td>
</tr>
<tr>
<td><strong>Nov 24</strong></td>
<td>Liquids and Solids</td>
<td>12</td>
<td>12.1—12.5—12.7</td>
<td>12: 43,51,53,57,61,89</td>
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<td><strong>Dec 1</strong></td>
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</table>
Student Registration

In this course you will be using MasteringChemistry®, an online tutorial and homework program that accompanies your textbook. If you have joined a MasteringChemistry course before and can still log in:

Save time by following the guide for joining another course found under the STUDENT heading at www.masteringchemistry.com > Tours & Training> Getting Started instead of using the steps below.

What You Need:

✓ A valid email address
✓ A student access code
   (Comes in the Student Access Code Card/Kit that may have been packaged with your new textbook or that may be available separately in your school’s bookstore. Otherwise, you can purchase access online at www.masteringchemistry.com.)
✓ The ZIP or other postal code for your school: 90650
✓ A Course ID:  CHEM110MWFALL2016BRADBURY

1. Register

   • Go to www.masteringchemistry.com and click Students under Register.
   • To register using the student access code inside the MasteringChemistry Student Access Code Card/Kit, select Yes, I have an access code. Click Continue.

   –OR– Purchase access online: Select No, I need to purchase access online now. Select your textbook, whether you want access to the eText, and click Continue. Follow the on-screen instructions to purchase access using a credit card. The purchase path includes registration, but the process is a bit different from the steps printed here.

   • License Agreement and Privacy Policy: Click I Accept to indicate that you have read and agree to the license agreement and privacy policy.
   • Select the appropriate option under “Do you have a Pearson Education account?” Continue to give the requested information until you complete the process. The Confirmation & Summary page confirms your registration. This information will also be emailed to you for your records. You can either click Log In Now or return to www.masteringchemistry.com later.

2. Log In

   • Go to www.masteringchemistry.com.
   • Enter your Login Name and Password that you specified during registration and click Log In.

3. Join Your Instructor's Online Course and/or Open Self-Study Resources

Upon first login, you’ll be asked to do one or more of the following:

   • Join a Course by entering the MasteringChemistry Course ID provided by your instructor. If you don’t have a Course ID now, you can return to join the MasteringChemistry course later. When you join a course, you may also be asked for a Student ID (follow on-screen instructions).

   • Explore the Study Area or Launch Your eText, if these resources are available for your textbook.

To Access MasteringChemistry Again Later

Simply go to www.masteringchemistry.com, enter your Login Name and Password, and click Log In.

After you have joined a course: You can open any assignments from the Assignments Due Soon area or from the Assignments page. For self-study, click eText or Study Area, if these options are available.

Support

Access Customer Support at http://www.masteringchemistry.com/support, where you will find:

• System Requirements
• Answers to Frequently Asked Questions
• Registration Tips & Tricks video
• Additional contact information for Customer Support, including Live Chat
LABORATORY GENERAL INFORMATION

LABORATORY TEXTS & MATERIALS

Goggles: Safety goggles in compliance with ANSI Z87.1-1989 and which have splash protection, both of which are required by California State Law, must be worn at all times in the lab.

Plastic Lab Apron (GOGGLES & APRONS AVAILABLE AT CAMPUS BOOKSTORE)

Safety in the Chemistry Laboratory and Practice for the Safety Quiz

Chemistry 110 Experiments (FIND ON WEB PAGE: www.cerritos.edu/jbradbury (Click on Chem. 110 Lab)

Scientific Calculator

EXPERIMENTS

You will be doing the experiments in the order in which they are listed in the laboratory schedule. You are responsible for downloading and printing the assigned experiment, reading it before coming to lab, and bringing it with you to lab. (The lab quiz may contain questions about this experiment.) You must print out and bring all experiments with you on the second day of lab or you will not be permitted to perform the quiz and experiment.

Safety: All safety procedures specified in Safety in the Chemistry Laboratory must be followed at all times in the laboratory. Failure to work safely in accordance with those as well as any other safety procedures presented to you in the safety video, in written experiment instructions, or verbal instructions from your lab instructor, can result in your being removed from the lab. Failure to wear safety goggles can result in your being removed from the lab.

Lab Make-Up: If you miss an experiment you may not make it up but you should take the quiz on that experiment. (Prepare for the quiz by reading the experiment.) If you miss more than two experiments, (more than 2 experiment reports missing) your Chem 110 grade will be no higher than D.

Community Drawers: The community drawers contain items of equipment that you will not find in your assigned equipment box. You may use these during a lab, but they must be returned to the community drawer, clean, before you leave the laboratory.

GRADING STRUCTURE

Reports: (10 points each): Experiment Reports are found at the back of each experiment. Be sure to have your experiment Report initialed by your lab instructor before you leave the lab on the day that you do the experiment. You do not have to fill out the Report in order to get the instructor’s initials. Your lab instructor will be happy to answer any questions that you have about your completed Report at the beginning of class on the day it is due. Late Reports will be discounted two (2) points per lab period. Reports turned in more than 2 lab periods late receive no credit. You will receive no credit for your work if there are no instructor initials. At the end of the semester your lowest Report score will be dropped.

Quizzes: (30 points each): One quiz will be given for each experiment. The quiz will be given on the same day that the that experiment Report is due. There will be NO MAKE-UP QUIZZES given. You may, however, take a quiz ahead of time at a place and time arranged by your lab instructor. At the end of the semester your lowest quiz score will be dropped.

Safety Quiz: (30 points) A Safety Quiz will be given on the date indicated in the laboratory schedule. You will prepare for this quiz by reading Safety in the Chemistry Laboratory. You must get a satisfactory score on the quiz. If you do not receive a satisfactory score, you will be allowed to retake the quiz once, at a place and time arranged by your lab instructor. If you do not get a satisfactory score when you retake the quiz you will receive an F grade for the laboratory portion of the course. (If you choose not to drop the class but to remain, knowing that the lab grade and therefore the course grade will be an F, you will NOT be allowed to do any experiments.) The points you receive for the safety quiz will be the score you got on your first attempt. The safety quiz score will not be dropped, even if it is the lowest quiz score of the semester.

Capstone Lab: (50 points): A lab exam will be given on the date indicated in the lab schedule.

Lab Grade: Your lab grade will be computed by taking the sum of the points you earned, dividing by the total points possible, and multiplying by 100 to give a percent grade. Your lab grade will account for 25% of your overall grade in the course. Do not underestimate the importance of your lab grade. If your lab grade is not 55% or higher, you will not pass the course, even if you have an A in lecture.
<table>
<thead>
<tr>
<th>Date</th>
<th>EXP</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUGUST</td>
<td>17</td>
<td>EXP 1 Measurements/Safety</td>
</tr>
<tr>
<td></td>
<td>24</td>
<td>EXP 2 Dimensional Analysis Safety Quiz and Measurement Quiz Bring copies of all lab procedures</td>
</tr>
<tr>
<td></td>
<td>31</td>
<td>EXP 3 Density Dimensional Analysis Quiz</td>
</tr>
<tr>
<td>SEPTEMBER</td>
<td>7</td>
<td>EXP 4 Techniques and Equipment Density Quiz Bring Goggles and Apron</td>
</tr>
<tr>
<td></td>
<td>14</td>
<td>EXP 5 Chemicals and their properties Lab Tools and Techniques Quiz</td>
</tr>
<tr>
<td></td>
<td>21</td>
<td>EXP 5 Chemicals and their properties Continued</td>
</tr>
<tr>
<td></td>
<td>28</td>
<td>EXP 6 Nomenclature and formulas Chemical and Physical Changes and Properties Quiz</td>
</tr>
<tr>
<td>OCTOBER</td>
<td>5</td>
<td>EXP 7 Empirical Formula of magnesium Oxide Nomenclature and Formulas Quiz</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>EXP 8 Composition of a Mixture Quiz Empirical Formulas</td>
</tr>
<tr>
<td></td>
<td>19</td>
<td>EXP 9 Solutions Part 1 Solubility Composition of a Mixture Quiz</td>
</tr>
<tr>
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<td>26</td>
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