# Palomar College
## Chemistry 110
### Fall 2011

**Instructor:** Dr. Carl Hoeger  
**Time:** 6-9 PM Tuesdays in NS-139  
**Phone:** (760) 744-1150, ext. 5261 (Leave a message; Note: may not be active)  
**E-mail:** choeger@palomar.edu (BEST WAY)  
**Web Page:** [http://daphne.palomar.edu/choeger](http://daphne.palomar.edu/choeger)  

**AOL Instant Messenger:** Screen Name: profcah  
**Office Hours:** Immediately after lecture and by appointment  

**Textbook:** *Chemistry*, 6th ed. by Silberberg. **This is the only required course-text material for this class.** A study guide and a solution’s manual are available as an option; the solutions guide is highly recommended. An inexpensive, NON-GRAFHGING scientific calculator is required (see calculator policy below).  

**Grading Standards**

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
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</thead>
<tbody>
<tr>
<td>3 Midterms (Weeks 4, 8 and 12)</td>
<td>360 points</td>
</tr>
<tr>
<td>5 to 7 Pop Quizzes, worksheets, etc (Drop Lowest) (Non-Exam weeks; ca. 20 pts ea)</td>
<td>120 points (adjusted)</td>
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<tr>
<td>Attendance (4 pts per non-exam meeting; max = 50 pts)</td>
<td>50 points</td>
</tr>
<tr>
<td>Homework (OnLine; max = 50 pts)</td>
<td>50 points</td>
</tr>
<tr>
<td>Final Exam (cumulative)</td>
<td>160 points</td>
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<tr>
<td><strong>Total RAW Points</strong></td>
<td>740 points</td>
</tr>
<tr>
<td><strong>Drop Lowest of Midterms or Quiz total</strong></td>
<td>120 points</td>
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<tr>
<td><strong>Adjusted Total Points</strong></td>
<td>620 points</td>
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The course grade will be based on the following **approximate** point cutoffs, based on adjusted points out of 620:  

- 520+ = A; 440+ = B; 360+ = C; 300+ = D; below 300 = F

**Class Notes**

- Learning chemistry **requires** good study skills and mathematical proficiency in algebra (which I **expect** you already know). The student should plan on spending ample study time for each lecture.  

- Prompt and regular attendance is expected. Roll sheets/cards will be available at the break; it is your responsibility to sign it. No ‘after-the-fact’ sign in will be permitted. You will receive 4 points per class you attend (excluding exam dates); you can receive a MAXIMUM of 50 points for attendance.  

- **IMPORTANT:** We have ONE lecture a week and that is THREE HOURS LONG! I know how hard it is to maintain focus, so we will do something a little different (explained on the first day) but YOU MUST BE PREPARED BEFORE EACH CLASS! I expect that you have read the chapter (not memorized, just read through it) BEFORE I lecture on it. More will be revealed on the first day of class.  

- Homework is **ONLINE** and MANDATORY. When you bought your book you should have received an access card to McGraw-Hill Connect ([http://connect.mcgraw-hill.com](http://connect.mcgraw-hill.com)). On our web page will be instructions on how to use that access code to get to the online homework for our course. See the “On-Line Homework” page on this syllabus. The quizzes and exams will have at least one homework-like problem on each one. I **EXPECT** you to do your homework; plan to do at least 30 minutes a day of chemistry homework (this does not include ‘study time’).  

- **FIVE** to **SEVEN** homework quizzes will be given (see schedule). Your LOWEST score will be dropped. **Quiz make ups will not be given.**
• Three 80 minute exams will be given and make ups will be allowed only for serious and verifiable reasons. Advance (2 DAY) notification MUST be given explaining the reason for missing the test and how to contact for scheduling a make up. **DOCUMENTATION FOR MISSING AN EXAM WILL BE REQUIRED.** All Make up exams must be taken within 48 hours of the original exam (NO EXCEPTIONS).

• Evidence of cheating will result in a zero score on any paper, and may result in an F grade for the course; in addition, you WILL face college-determined administrative sanctions. Sharing a calculator or wearing a brimmed hat during a quiz/test is not allowed; eyes must be kept on own paper.

• The incomplete grade "I" is only offered if a student is unable to take the last and/or final test due to compelling and verifiable reasons.

**LECTURE SCHEDULE Fall 2011**
*(an exact description of how lecture works will be discussed on the first day)*

<table>
<thead>
<tr>
<th>Week # /Week of</th>
<th>Coverage</th>
</tr>
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<tbody>
<tr>
<td>1/Aug 22</td>
<td>Introduction/Course Policies; 1-Keys to study of Chemistry</td>
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<tr>
<td>2/Aug 29</td>
<td>2-Components of Matter;</td>
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<tr>
<td>3/Sept 5</td>
<td>3-Stoichiometry</td>
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<tr>
<td>4/Sept 12</td>
<td>Exam 1 over Chapters 1-3 4-Types of Chemical Reactions</td>
</tr>
<tr>
<td>5/Sept 19</td>
<td>4-Reaction Types (cont); 5-Gases and KMT</td>
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<tr>
<td>6/Sept 26</td>
<td>6-Thermochemistry</td>
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<tr>
<td>7/Oct 3</td>
<td>6-Thermochemistry (cont);</td>
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<tr>
<td>8/Oct 10</td>
<td>Exam 2 over Chapters 4-6 7-Quantum Theory</td>
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<tr>
<td>9/Oct 17</td>
<td>7-Quantum Theory (cont) 8-Electron Configuration and Periodicity</td>
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<tr>
<td>10/Oct 24</td>
<td>8-Electron Configuration and Periodicity 9-Bonding Models</td>
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<tr>
<td>11/Oct 31</td>
<td>9-Bonding Models 10-Lewis Structure and Shape</td>
</tr>
<tr>
<td>12/Nov 7</td>
<td>10-Lewis Structure and Shape (cont) 11-MO Theory</td>
</tr>
<tr>
<td>13/Nov 14</td>
<td>Exam 3 over Chapters 7-9 11-MO Theory (cont)</td>
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<tr>
<td>14/Nov 21</td>
<td>12-Intermolecular Forces</td>
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<tr>
<td>15/Nov 28</td>
<td>13-Properties of Mixtures: Solutions</td>
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<tr>
<td>16/Dec 5</td>
<td>Catch Up and/or Review</td>
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**Final Exam Tuesday December 13th, 6-8 PM**

**Important Dates:**
1. Sept 5th – Last day to add with permission code.
2. Sept 21st - Drop deadline; instructor's permission not required; no notation on record.
3. Sept 22nd – Deadline to change grading option.
4. Oct 15th - Drop deadline; instructor's permission not required; W notation on record.
5. After Oct 15th an evaluative grade (A, B, C, D, or F) must be given.
CONNECT On-Line Homework

This Semester we will be using on-line homework AND IT IS REQUIRED. Let me start by discussing homework in general:

1. **On-Line Homework:** This is done using the CONNECT system. This will start the first week; instructions are included herein and will be posted on my web page (daphne.palomar.edu/choeger) as well. WORTH: 15-50 points (see below).

   IMPORTANT: When you bought your book there should have been a code card/paperleaf with a CONNECT registration code on it. This registration code is what you will use. The good news is that it is good for two years of access, so once you use it once you never need it again (but hold on to it anyway). ONE CODE PER STUDENT, so if someone ELSE already used it, you will HAVE to buy a new code on the CONNECT Website (only a problem if you bought a used book; cost = $50). This HW system will be used in 110 and 115 and is good for two years. If you are retaking 110 or have used an CONNECT code previously (like a 110 student taking 115) you do NOT need a new Registration code! To register you will go to:
   connect.mcgraw-hill.com/class/c_hoeger_chemistry_110_palomar
   and click on the “register now” button.

2. **How On-Line Homework will work:** Complete instructions will be posted on our web page; the general scheme is that once I set the class up on CONNECT you will go to a web page I will provide you and register with your code.

   You will then have access to all assignments from me, including their due date (which is a “drop-dead” date AND TIME: you can not do it after that date and get credit; NO EXCEPTIONS!). The first one is a “warm-up” training assignments, and there for you get used to the system; it is worth points. I suggest you do it immediately. Assignments will be clearly marked as “Homework #1” or something similar.

3. **How Points are awarded for On-Line assignments:** Each assignment will consist of 10-25 problems of varying difficulty with points assigned accordingly; if you have been coming to class they should not be too difficult. The numbers in the problems (and some of the questions) will be different for each student, so telling your friends what the answers are will not help. Don’t cheat! You can use a periodic table, an equation sheet, your notes and text, you can even print them out and do them off line, just NO OUTSIDE LIVING HELP (i.e. a friend)! *(note: CONNECT has a built in Periodic Table and constants table; it is recommended that you use THOSE rather than your own as answers in CONNECT are based on those numbers. Getting something wrong because you used your numbers will be marked wrong and NOT changed).* The plan is that you will have TWO chances on each assignment to get a perfect score (this may have to be modified). After each assignment, you will be able to see your points for that assignment.

   More information will be given in class.

   **Just doing the on-line assignment:** 1-2 points per assignment for a total of 15 points (these points are awarded regardless of how many you get correct); you must have spent time on the assignment to get these points (instructor discretion).

   **Getting problems correct:** At the END of the course, I will look at what percentage of the TOTAL ASSIGNED problem points you got; additional points will them be awarded as such:

   - **90% or greater:** 35 points
   - **80%-90%:** 30 points
   - **65%-80%:** 20 points
   - **40%-65%:** 5 points
   - **Less than 30%:** 0 points

   More information will be given in class.
Calculator Policy for Dr. Hoeger’s Chemistry Courses

The following is the policy that will be enforced in this class during this quarter. It applies not only to lecture exams but to Discussion Section quizzes as well. There will be no exceptions to this policy allowed. **Violations of this policy are considered Academic Honesty violations by the Instructor!**

Calculators/computational devices **ALLOWED** for testing purposes:

- **ANY non-Graphing, non-programmable Scientific Calculator.** It should be able to do logarithms, scientific notation and basic arithmetic. A TI-30 or equivalent is recommended. *If your calculator can enter letters and/or words you will not be allowed to use it!*

Calculators/computational devices **NOT ALLOWED** for testing purposes:

- ANY graphing or programmable calculator;
- ANY PDA or similar device;
- ANY laptop or palm computer or computational device;
- ANY calculator (including those on the allowed list) with the ability to have text stored in them.

**SUMMARY:** ONLY non-graphing, non-programmable scientific calculators will be permitted for exam and quiz purposes.

Cell Phone/Pager Policy for Dr. Hoeger’s Chemistry Courses

THEY ARE NOT PERMITTED IN THE CLASSROOM. PERIOD. END OF STORY. IF YOURS GOES OFF DURING A CLASS YOU WILL BE ASKED TO LEAVE THE CLASSROOM. SHOULD YOUR CELL PHONE RING DURING AN EXAM YOU WILL FAIL THAT EXAM. PERIOD. END OF STORY. SHOULD YOUR PAGER GO OFF DURING AN EXAM, YOU WILL FAIL THAT EXAM. PERIOD. END OF STORY. IF FOR SOME REASON YOU MUST HAVE YOUR CELL PHONE OR PAGER ON DURING AN EXAM OR DURING CLASS, SEE DR. HOEGER IMMEDIATELY FOR SPECIAL SEATING. ONCE IT GOES OFF IT’S TOO LATE.

Academic Honesty Policy (AHP)

Before beginning, let me state EMPHATICALLY that I FIRMLY believe that 99.9% of my students (if not 100%) are basically honest people. I also know that the pressures of school, grades, family, etc. can be overwhelming at times and can lead one to make choices they would not normally make. The Academic Honesty Policy is (in brief):

“All academic work will be done by the student to whom it is assigned, without unauthorized aid of any kind. Instructors, for their part, will exercise care in planning and supervising academic work, so that honest effort will be encouraged. Academic misconduct includes but is not limited to cheating, plagiarism and/or collusion.”

For my part, I will make it easy **not** to cheat on exams using a variety of methods including multiple versions of each exam and quiz. I view violations of the AHP as a very serious offense against your fellow students and against the integrity of the University, as well as a personal affront to me. If caught, I will pursue disciplinary action against all parties TO THE FULLEST EXTENT POSSIBLE; this may include failure, suspension and/or expulsion.

For a list of possible violations of the AHP, SEE THE WEB PAGE.