Chemistry 124-61/62
General Chemistry for Physical Science and Engineering I
Fall 2019; MWF: 9:10 a.m. – 11:00 a.m.
Bldg. 180, Rm. 362

Instructor Information
Instructor: Dr. Michael Heying
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Phone Number: (805) 756-2245

Office Hours:
Tuesday: 9:10 a.m. – 10:00 a.m.
Tuesday: 2:10 p.m. – 3:00 p.m.
Thursday: 10:10 a.m. – 11:00 a.m.
Thursday: 2:10 p.m. – 3:00 p.m.
Friday: 12:10 p.m. – 1:00 p.m.
Or by appointment

Course Information
Chemistry 124 is a fast-paced and challenging course. In order to be successful, you should plan on spending 10 hours a week (a ballpark guess) to this course outside of class meetings. That time could be spent reading the textbook, reviewing and studying lecture notes, working homework problems and hopefully, discussing topics with fellow students. Most of the material will be covered in our time together, but you will be responsible for some material not covered in class and as such, you must read the text. Also, some details will be covered in class that may not be covered in your text, so attendance is an important aspect of the course.

Required Course Materials
• Textbook – Chemistry: Atoms First – OpenStax.org. This is an open source text, available for free online in pdf and html format. Printed copies can also be purchased through the bookstore.
• Non-programmable scientific calculator – Programmable calculators (or cell phones) may not be used for quizzes or exams. Important note: You may not borrow a calculator from your neighbor during testing. If you do not bring a non-programmable calculator, then you may have to take the quiz or exam without a calculator.
• Appropriate clothing – Closed-toed shoes (the top of your foot should not be showing) as well as shirts that cover your torso are required. You will not be allowed to remain in the studio unless appropriately dressed even if we do not have an experiment ongoing.
• Active Cal Poly email account – I will send out emails throughout the course of the quarter, so be sure to use your Cal Poly account or have it forwarded to an address that you use. You will also need to use your 9 digit EMPLID, so it may be helpful to have it in an accessible location.

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**Grading**

The final grade for the course will be determined by the distribution shown below:

<table>
<thead>
<tr>
<th>Item</th>
<th>Category Percentage</th>
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<tbody>
<tr>
<td>Quizzes</td>
<td>16%</td>
</tr>
<tr>
<td>Exams</td>
<td>38%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>25%</td>
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<tr>
<td>Activities</td>
<td>21%</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>100 %</strong></td>
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**Scale:** The following grade scale is guaranteed (with +/- grades):  
>90% for an A, 80 – 89% for a B, 70 – 79% for a C, 60 – 69% for a D.  
This grading scale may be revised to include broader, more “generous” ranges at the conclusion of the quarter. No single quiz, exam or other item will be curved.  
Grades will be posted in PolyLearn (http://my.calpoly.edu) as the quarter progresses; please verify your scores there and contact me if there are any mistakes or questions.  
Important Note: PolyLearn will likely not calculate your overall grade correctly! It will be set up to do so, but alas, it probably will not. I use it only to ensure that I have correct scores in my grade book.

**Quizzes:** There will be quizzes (~20 minutes long) throughout the quarter given on the dates specified on the class schedule. The quizzes are designed to help you keep up with the material – they are like practice for the exams, and almost everyone needs some practice (important exception: Iverson, A.). The quizzes will focus on the most recent material covered in the course. Your lowest individual quiz score will be dropped before determining your final grade.

**Exams:** There will be two exams given on the dates specified on the course schedule. Each exam will cover material from in-class material and activities, homework problems, assigned reading and activities. Exams may consist of true/false questions, multiple-choice questions, fill-in-the-blank questions, short answers or calculations.

**Final Exam:** The final exam is **Wednesday, December 11th at 9:10 a.m.** The final exam will be comprehensive. If your final exam score is higher than your lowest exam score, it will also replace that exam grade (the increase is capped at 75%).
Activities: Broadly, this category includes in-class assignments, participation, activity quizzes and the experiments. Lab reports, when assigned, are due, at the beginning of class, according to the date posted on the course schedule. If you turn in an activity report late, but by the class meeting immediately after the due date, the report will be graded but it will be downgraded 25% (i.e., the highest score you can receive is 75% if it is perfect, just late). Any reports received after this second deadline will not be graded. Given the heavy use of the studio by other sections and classes and the nature of the way the class proceeds, making up laboratories or other activities is, in general, not possible.

Course Details

Academic Honesty: Since you are at this university to learn, it is only reasonable that you will not try to represent someone else’s work as your own. Otherwise, the feedback or grade that you receive will not be a useful indicator of your progress in or comprehension of the subject. Besides, what does it profit a person if they gain the world, yet forfeit their soul? Incidents of academic dishonesty (cheating, plagiarizing, etc.) will be reported to the Office of Student Rights and Responsibilities. Please note that if you miss part of an experiment, simply submitting a lab report that contains data that you did not collect constitutes academic dishonesty.

Anticipated Conduct: Please be respectful to your classmates, your TAs and your instructor. Please stow your cell phones, earbuds, etc. during class. Chemicals plus devices plus your face equals a sad emoticon. Please note that if I find that you cannot comply with this directive, I will help you by holding on to them for the class period.

Speaking of Conduct… Cal Poly considers the diversity of its students, faculty, and staff to be a strength and critical to its educational mission. Cal Poly expects every member of the university community to contribute to an inclusive and respectful culture for all in its classrooms, work environments, and at campus events.

Lab Hygiene: The course takes place in an integrated lecture/laboratory room. As with every laboratory, the rule is: no food or drink permitted (whether or not the class period has begun). Good news! I follow the same rules as you, so I will not be eating and drinking in front of you. If you do decide to bring food or drink in or engage in other behavior inappropriate for a laboratory, points may be deducted from your grade as a result.

Course Schedule / PolyLearn: The course materials will be posted on the course schedule page; they include the course syllabus, additional practice problems, assigned reading, study guides, helpful links, etc. Our course schedule can be accessed through my homepage: https://web.calpoly.edu/~mdheying/
To access the course / grades in PolyLearn, you need to use your CalPoly login and password.
Course Accessibility: Please note that if you are a DRC student, you can make arrangements either with me or through the DRC office for your specific situation.


My (Unsolicited) Advice: You will get much more out of this class if you attend it, participate in the class discussion and ask questions as they come up in class. Work the in-class problems, talk to your neighbor when I ask you to discuss a problem, and take advantage of the scheduled time we have together. Homework problems, both from the text and from worksheets, will be posted on the course web page, but these problems will usually not be collected or graded. You should try all types of problems; do not only do the book problems or only do the worksheet problems. They are suggested as an aid in understanding the key concepts and in preparing for the exams. The only proven way of learning this subject is by practicing and working related problems repeatedly. Often, questions for exams will come from or be very similar to the assigned problems. For some of you, working a few examples will be sufficient to understand a concept; for others, it may be necessary to work more problems than assigned to understand a concept. When you do the problems, can you do them on your own (without your notes or the text)? If you cannot, then you do not yet understand the material well enough.

While it sounds obvious, try not to fall behind. It is much easier to keep pace than to try to catch up (if it helps, think of running as an analogy). If you do not understand the material from Week 2, it will make the material from Week 3 that much more difficult. Come see me during office hours or make an appointment. Please ask me questions during and after activities have been completed – the more you utilize our time together, the less time you will need to dedicate to the course outside of our meeting times.

Remember that I am here to help you. Do not wait until the last minute to figure it out.