CHEM 111 General Chemistry Lab Syllabus Spring 2018

INSTRUCTOR
DR. LISA KENDHAMMER
OFFICE HOURS: TUES 10 – 11AM, WED 10 – 11AM, AND BY APPOINTMENT
OFFICE: PHSC 304
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MATERIALS
Required:
TEXTS: CHEM 111 General Chemistry I Laboratory Manual (available through SAACS in PHSC 309)
SUPPLIES: Safety Glasses or Goggles (required); Lock (required); and Lab coat (supplied)

SCHEDULE:

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Lab(s)</th>
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| 1    | Jan. 23, 24, 25 | • Check-In  
                     • Exp #1: Basic Laboratory Techniques                                |
| 2    | Jan. 30, 31, Feb. 1 | • Exp #2: Substance Identification by Its Physical Properties |
| 3    | Feb. 6, 7, 8      | • Exp #3: Separating the Components of a Mixture                      |
| 4    | Feb. 13, 14,15    | • Exp #4: Chemical Formulas: Determining the Empirical Formula of Zinc Chloride (Old Exp #5) |
| 5    | Feb. 20, 21, 22   | • Exp #5: Chemical Reactions (Old Exp #4)                               |
| 6    | Feb. 27, 28, Mar. 1 | • Exp #6: Metathesis Reactions and Equations (Old Exp #21)            |
| 7    | Mar. 6, 7, 8       | • Exp #7: Acid-Base Titration (Old Exp #20)                            |
| 8    | Mar. 13, 14, 15    | • Exp #9: Reactions and Percent Recovery of Copper (Old Exp #6)        |
| 9    | Mar. 27, 28, 29    | • Exp #8: Gravimetric Analysis of Calcium as CaC2O₄•H₂O (Old Exp #8)   |
| 10   | Apr. 3, 4, 5       | • Exp #11: Lewis Structures, Molecular Geometry, and VSEPR Theory     |
| 11   | Apr. 10, 11, 12    | • Exp #12: Calorimetry: Enthalpy of Neutralization Reactions (Old Exp #28) |
| 12   | Apr. 17, 18, 19    | • Exp #13: Molar Mass of a Volatile Liquid                            |
| 13   | Apr. 24, 25, 26    | • Exp #14: Analysis of Alka-Seltzer via Gas Evolution                 |
| 14   | May 1, 2, 3        | • Exp #15: Colligative Properties: Determination of Molar Mass via Freezing Point Depression (Old Exp #19) |
| 15   | May 8, 9, 10       | • Check-Out                                                            |
EVALUATION

There will be 14 lab assignments throughout the semester. Each lab will be worth 15 points.

Recall that your laboratory grade accounts for 20% of your entire CHEM 111 grade.

Your grade for each experiment will primarily consist of five parts:

1) Completing a prelab activity (video, virtual lab, simulation
2) Answering questions about the prelab activity on blackboard (1 point)
   - completion of this will unlock your prelab questions
3) Answering prelab questions on blackboard (4 points)
4) In-Lab Report: provided in the primary text and due at the end of the lab period (5 points)
5) PostLab questions: posted on Blackboard and due with the in-lab report at the end of the lab period. Make sure to print these out before lab and you will complete them when you are finished with the experiment. (5 points)

Note that the instructor may deduct points from lab reports for classroom conduct (safety, technique, cleanliness, respect of others, etc.).

You are also required to give a group laboratory presentation. More details about these presentations will be provided later in the semester.

Safety

There are a couple of lab regulations that must be followed. You must wear lab glasses or goggles, long loose fitting pants (no leggings, skinny jeans or jeans with rips), socks (must cover ankles while sitting) and closed toed shoes that completely cover your feet to each lab class, even the first one, as you will be doing a lab on the first day. In other words, the only skin that should be showing is your face, neck, and hands. You do not need to do this for your lecture class, only labs. Due to new safety regulations, if you are not wearing the proper attire you will not be able to stay in class and complete the lab. Feel free to bring a change of pants to your lab. Some students have opted to bring sweats or scrubs to their labs and just put them on over their shorts. This is an acceptable solution and fulfills the safety requirement. You will be supplied with a lab coat and protective gloves. This is department policy and must be followed. You will not be allowed to do the lab if you are not following these regulations.

Also it is very important you come prepared for lab. This means reading over the entire lab before you come to class and knowing all the potential hazards for that week’s lab.

Lab Policies

According to department policy you must be on time for the first day of lab. If your tardiness exceeds 15 minutes your spot in the class could be given to another student; resulting you in being dropped from the class.

Labs are to be handed in at the end of your lab class in the week they are performed. The only way you can make up a missed lab is if you find another lab section that same week in which to do the lab. However, this MUST be approved by both me and the lab instructor who is in charge for the lab section in which you are making up the lab. Because of the extensive preparation for these labs, no make-up labs can be conducted in the week(s) after the missed lab.
You may miss no more than two labs in the semester. If you miss 3 or more labs, it will result in you failing the laboratory component of the course. You must pass the laboratory component of the course to pass the course.

**Grade Disputes**
If you would like to dispute a grade on an assignment or examination you must wait 24 hours before contacting me about the dispute. After the 24 hours, you may submit a written response describing the dispute and I will look over the item(s) in question. The written response must be submitted within 7 days of when the assignment or examination was given back to you.

**Add/Drop/Withdrawal Policy**
Note: This was taken directly from Chico Accessible Syllabus Template
“You are responsible for understanding the policies and procedures about add/drops, withdrawal, academic renewal, etc., found in the CSU Chico University Catalog. You should be aware of the new deadlines and penalties for adding and dropping classes.”

**Disability Accommodations**
Note: This was taken directly from Chico Accessible Syllabus Template
“If you need course adaptations or accommodations because of a disability or chronic illness, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Please also contact Accessibility Resource Center (ARC) as they are the designated department responsible for approving and coordinating reasonable accommodations and services for students with disabilities. ARC will help you understand your rights and responsibilities under the Americans with Disabilities Act and provide you further assistance with requesting and arranging accommodations.”

**Academic Dishonesty**
It is your responsibility to have read and understood the "Executive Memorandum 04-036", CSU Chico’s policy on Academic Integrity. Copying of material, cheating, unauthorized collaboration, plagiarism, self-plagiarism and the unauthorized use of materials during exams and labs is forbidden. Do your own work and make sure it is from this semester. Any violations will result in a minimum consequence of a zero for that assessment, and failure in the course or referral to the Office of Student Judicial Affairs may occur. For the online homework, feel free to discuss the items with your classmates and you may work together, but each individual should complete the work and submit their own answers.

**Title IX: Confidentiality and Mandatory Reporting**
As a Chico State instructor, one of my responsibilities is to help create a safe learning environment for Chico State students. It is my goal that you feel able to share information related to your life experiences in classroom discussions, in your written work, and in our one-on-one meetings. I will seek to keep information you share private to the greatest extent possible. However, I am required to share information regarding sexual misconduct with the University.

Students may speak to someone confidentially by contacting the Counseling and Wellness Center (898-6345) or Safe Place (898-3030). Information about campus reporting obligations and other Title IX related resources are available here: www.csuchico.edu/title-ix