

# Fall 2019 Chemistry 110 Thursday Lab Schedule

Course Instructor's Name: \_\_\_\_\_ Course Ticket Number: \_\_\_\_\_

Instructor's Office Hours: \_\_\_\_\_ Instructor's Email Address: \_\_\_\_\_

## REQUIRED 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 in campus bookstore)
- Safety in the Chemistry Laboratory and Practice for the Safety Quiz
- Chemistry 110 Experiments (FIND ON WEB PAGE: [HTTPS://WWW.CERRITOS.EDU/CHEMISTRY/CHEM\\_110/DEFAULT.HTM](https://www.cerritos.edu/chemistry/chem_110/default.htm))
- 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 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 Professionalism Grade:** (30 points, included in the quiz portion of the lab): Part of your laboratory grade is derived from the overall quality of your work and attitude. You are being trained to become a professional. Professions such as engineers, researchers, doctors, therapists and pharmacists require a certain ethic and attitude. We are training you for this a successful future as a professional. It is also important for you to learn how to safely and properly utilize equipment and supplies in the laboratory, be punctual and focused, follow instructions, and demonstrate professional attitude and respect for the instructor, other students in the course, and laboratory equipment/supplies. As such, a laboratory professionalism grade will be a component of your final grade in this course. This grade will be based on your overall performance in the laboratory, including the proper use and care of laboratory equipment and supplies. Any improper/unsafe use of, damage to, or loss of lab equipment or supplies will result in a deduction from the professionalism grade. In the case of damaged equipment, the deduction will be proportional to the damage or loss incurred.

## Fall 2019 Chemistry 110 Thursday 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.

**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.

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<i>Thursday Lab and Quiz Schedule</i>	
August	22 EXP 1 Measurements/Safety
	29 EXP 2 Dimensional Analysis <b>Safety Quiz and Measurement Quiz</b> Bring copies of all lab procedures
September	5 EXP 3 Density <b>Dimensional Analysis Quiz, Bring Goggles and Apron</b>
	12 EXP 4 Chemicals and their properties <b>Density Quiz, Locker check-in</b>
	19 EXP 4 Chemicals and their properties continued <b>Lab Tools Quiz</b>
	26 EXP 5 Composition of a Mixture <b>Chemicals and their Properties Quiz</b>
October	3 EXP 6 Nomenclature and formulas <b>Composition of a Mixture and Techniques Quiz</b>
	10 EXP 7 Empirical Formula of magnesium Oxide <b>Nomenclature Quiz</b>
	17 EXP 8 Solutions Part 1 Solubility <b>Empirical Formula Quiz</b>
	24 EXP 9 Solutions Part 2: Acids Bases and electrolytes <b>Solutions Part 1 Quiz</b>
	31 EXP 10 Types of Chemical Reactions <b>Solutions Part 2: Acids Bases and electrolytes Quiz</b>
November	7 EXP 10 Types of Chemical Reactions continued
	14 EXP 11 Titration <b>Types of Reactions Quiz</b>
	21 EXP 11 Titration continued
	28 <b>Thanksgiving Holiday</b>
December	5 EXP 12 Energy in chemical reactions <b>Titration Quiz</b> See Capstone preparation
	12 <b>Capstone Lab &amp; Checkout</b>
	19 Finals Week