

# CHM 107LL Chemistry & Society Laboratory Syllabus

Glendale Community College Main Campus  
Section 11463  
Spring 2020

## Instructor Information

- Instructor: Debra Arford
- Course Coordinator's (Dr. Kim Smith) Office: PS 118
- Department Secretary's **Phone**: (623) 845-3675
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- Website: <http://web.gccaz.edu/~kimld88531/chm107LL.htm>

## Course Information

- Course format: Face-to-Face
- Credit hours: 1.00
- Classroom location: PS 150
- Course days and times: Monday 2:00 -4:50 pm
- Exceptions: Official GCC Holidays
- Instructional Contact Hours & Out-of-Class Student Work: For this 1.0 credit hour course, you should plan to spend at least 3.0 hours on course content or seat time (direct instruction), and 1.0 hours on out-of-class student work weekly. Accelerated courses like summer will require additional time per week.
- Final Exam day and time: Last day of regular lab class before finals week

## Course Description

Laboratory experience in support of CHM107 lecture.

## Course Competencies <http://aztransmac2.asu.edu/cgi-bin/WebObjects/MCCCD.woa/wa/freeForm2?id=49876>

1. Identify chemical hazards and hazards warning signs (such as the 4-bar Hazardous Material Information System, the 4-diamond National Fire Protection Association System, and Material Safety Data Sheets).
2. Record observations accurately.
3. Prepare written reports, present data in a logical format, analyze data, and report conclusions.
4. Use measuring devices and report measurements with the proper number of digits.
5. Apply the principles and concepts presented in lecture (CHM107) to laboratory experiments.
6. Use laboratory equipment properly and safely.

## Textbooks, Materials and Technologies

There is no text for this lab course. Instead materials are at <http://web.gccaz.edu/~kimld88531/chm107LL.htm>

Scientific, non-programmable, calculator is required such as the TI-30XA or TI-30XIIS.

## Attendance Requirements

Attendance in lecture and lab is mandatory and necessary for adequate performance in the class. Instruction begins on the first day of class. Three or more absences will result in your withdrawal from the class or a failing grade for the semester. It is your responsibility to initiate a withdrawal from the class. Failure to do so may result in a failing grade for the semester. **If you withdraw from lecture in the first 10 weeks, you MUST also withdraw from the lab.**

**You must arrive for lab on time.** Your instructor will introduce new techniques, procedures, and safety as well as briefly review the theory and calculations at the beginning of each lab. **Students who arrive too late to receive critical lab and safety information or leave during will not be allowed to complete the lab.**

Students with 3 *absences* will receive a W, no exceptions. Students who miss a lab may take the lab final at the end of the semester to replace **one** missed lab report. If you withdraw from the CHM 107 lecture within the first ten weeks of class, you must also withdraw from your lab course. It is the responsibility of the student to drop the course before the deadline for student-initiated withdrawal. Students should contact their instructor to withdraw. The instructor may drop a student for excessive absences (as defined by the instructor) with a grade of W. After the deadline specified in the current GCC course schedule, you will need instructor approval to withdraw. If approved for withdrawal, students receive a grade of "W" Students may not withdraw during the last two weeks of the semester; an A-F grade will be assigned. Note: A grade of "Y" may be given for cheating and counts as an "F" in your GPA forever. If you require a letter grade because of financial aid, you must continue to attend lab.

## Grading Standards & Practices

Your final grade will be based on the average of all your lab reports. The final can replace your lowest lab report. If you miss a lab you must take the final.

Letter Grade	Percent Range
A	90-100%
B	80-89%
C	70-79%
D	60-69%
F	0-59%

## Late Work / Make-Up Exams

**Late work:** You must turn in all assignments **complete** and **on time**. *Complete* means you have done everything specified in the assignment instructions. *On time* means by the end of the lab class period. Incomplete assignments will not be graded. Assignments may be turned in early, but I do not accept them late without giving *prior approval* for work to be turned in late.

**Make-Up Exams:** You must take the final during the scheduled time if you so choose to take it. You can only make up the lab final if instructor approved with written documentation. If you perform lower on the final than a lab it will not replace the lab score. Remember, one missed assignment may lower your

grade but will not cause you to fail. If your work is incomplete or late, or you must miss a lab for whatever reason (stuck at work, sick, emergency at home, etc.), these are the consequences. For best results, plan ahead, keep up with your coursework, attend class regularly and promptly communicate with your instructor about any issues impacting your academic performance.

**Course Outline** The following is a tentative schedule:

Week	Dates	Experiment and/or Activity
1	Jan 13	Welcome! Introduction to Lab, Chemistry Department Policies and Rules, and Lab Schedule; demo on how to print experiments and the MCCCDC Risk Form from the CHM107LL website, check roster, drop absent students Laboratory Safety and the Safety Video; MCCCDC Risk Forms (signed & dated); <b>Safety Exercise</b>
2	Jan 20	*****Monday holiday
3	Jan 27	<b>Experiment: Scientific Method</b> You must have goggles and appropriate dress today (for all experiments)
4	Feb 3	<b>Experiment: States of Matter</b>
5	Feb 10	<b>Experiment: Atomic Theory</b>
6	Feb 17	*****Monday holiday
7	Feb 24	<b>Experiment: Physical and Chemical Changes</b> <i>2/28 Deadline to Withdraw w/o instructor signature</i>
8	Mar 2	<b>Experiment: Heat and Energy</b>
	Mar 9	Spring Break March 9-15
9	Mar 16	<b>Computer Day and Field Trip</b>
10	Mar 23	<b>Experiment: Osmosis</b> <i>3/27 If you dropped lecture, you must drop lab</i>
11	Mar 30	<b>Experiment: Density</b>
12	Apr 6	<b>Experiment: pH of Household items</b>
13	Apr 13	<b>Experiment: Polymers</b>
14	Apr 20	<b>Nuclear Videos &amp; Discussion</b> <i>4/20 Last day to Withdraw from CHM classes</i>
15	Apr 27	<b>Lab Final</b> (Only students who have missed a lab are required to take the final exam but you can replace your lowest lab score also.)
16	May 4	No lab, lecture finals only

### Instructor Expectations

Use of cell phones and smart watches is not allowed in lab. Food and drink are not allowed in lab. Proper dress and goggles must be worn during all experiments or the student will be asked to leave and get a zero for the lab. You should keep ALL your lab reports until final grades are assigned.

**Goggles and Clothing:** Wet lab experiments require OSHA- approved splash-proof goggles. (*Note: Safety glasses, biology glasses, and perforated goggles are NOT acceptable.*) Goggles may be purchased at the GCC Bookstore. You **must** bring your own goggles, and you should leave them in the assigned goggle drawer for your section during the semester. Please use a permanent marker to write your name on your goggles or on the goggle strap. **If a student forgets to bring his/her goggles, the student will not be allowed to work and he/she will need to make arrangements to attend a make-**

**up lab in a section that has available space if possible or he/she will receive a zero for that lab.**

**You must print and read each lab experiment before coming to class.**

Students are also required to wear closed-toed and heel shoes that cover the top of the foot and clothing that covers them from neck and shoulders to below the knees. Students coming to lab with improper shoes and inappropriate clothing will be sent home, and will need to attend a make-up lab if possible or they will receive a zero for that lab. Leather shoes are not required.

## Course Technology Information

### General Statement for Use of Web-Based Third-Party Tools and/or Canvas Learning Tool Integrations

In this class, you may be using web-based third-party tool(s) and/or Maricopa's Canvas Learning Management System Learning Tools Interoperability ("LTIs") to complete or participate in assignments, activities and/or access course materials. You may be required to establish a user name or password, submit work and/or download information from these tools. There is, therefore, some risk that individuals electing to use the products and services made available by these tools may place any student information shared with the tool vendor at a risk of disclosure.

Canvas – depends on instructor

- Terms of Use: <https://www.canvaslms.com/policies/terms-of-use-canvas>
- Privacy Policy: <https://www.canvaslms.com/policies/privacy>
- Accessibility statement: <https://www.canvaslms.com/accessibility>

### Proctored / Monitored Exams

This course requires proctored/monitored exams.

### Student Rights & Responsibilities

You are expected to know and comply with all current published policies, rules and regulations as printed in the college [Academic Catalog](#), Syllabus, and/or [Student Handbook](#).

Academic Catalog: <http://www.gccaz.edu/gcc-catalog>

Student Handbook: <http://www.gccaz.edu/student-life/office-student-life/student-handbook>

The information in this syllabus is subject to change based on the discretion of the instructor. You will be notified by the instructor of any changes in course requirements or policies. You are required to know the information contained in this syllabus.

### Classroom Accommodations for Students with Disabilities

In accordance with the Americans with Disabilities Act, the Maricopa County Community College District (MCCCD) and its associated colleges are committed to providing equitable access to learning opportunities to students with documented disabilities (e.g. mental health, attentional, learning, chronic health, sensory, or physical). Each class/term/semester that a student is in need of academic

adjustments/accommodations, the qualified student is required to work with the Disability Resources & Services Office (DRS) at their individual college(s). Contact with the DRS should be made as soon as possible to ensure academic needs are met in a reasonable time. New and returning students must request accommodations each semester through DRS Connect online services. To learn more about this easy process, please contact your local DRS office.

If you have not yet established services through DRS, but have a temporary health condition or permanent disability that requires accommodations, you are welcome to contact DRS by using the information listed on the following webpage: <https://district.maricopa.edu/consumer-information/disability-resources/contacts>. The DRS offers resources and coordinates reasonable accommodations for students with disabilities and/or temporary health conditions qualifying for accommodations/academic adjustments. Reasonable accommodations are established through an interactive process between you, your faculty, and DRS; and only those academic adjustments/reasonable accommodations granted by the DRS are recognized by the college and District. It is the policy and practice of the MCCCDC to create inclusive and accessible learning environments consistent with federal and state law. If you are pregnant or parenting (as protected under Title IX) and would like to discuss possible academic adjustments, please contact the Disability Resources & Services Office.

## **Addressing Incidents of Sexual Harassment/Assault, Dating/Domestic Violence, and Stalking**

In accordance with Title IX of the Education Amendments of 1972, MCCCDC prohibits unlawful sex discrimination against any participant in its education programs or activities. The District also prohibits sexual harassment—including sexual violence—committed by or against students, District employees, and visitors to campus. As outlined in District policy, sexual harassment, dating violence, domestic violence, sexual assault, and stalking are considered forms of "Sexual Misconduct" prohibited by District policy.

District policy requires all college and District employees in a teaching, managerial, or supervisory role to report all incidents of Sexual Misconduct that come to their attention in any way, including but not limited to face-to-face conversations, a written class assignment or paper, class discussion, email, text, or social media post. Incidents of Sexual Misconduct should be reported to the college Title IX Coordinator. MCCCDC will provide on its [Title IX Coordinators web page](#), a link to all the [Title IX Coordinators](#) in the district. Reports may also be reported at: <https://district.maricopa.edu/consumer-information/reporting>.

## **Safety Regulations**

Arizona Statute ARS15-151 specifies that every student, teacher and visitor in public and private schools, community colleges, colleges and universities shall wear appropriate protective eyewear while participating in or when observing vocational, technical, industrial arts, art or laboratory science activities involving exposure to: molten metals or other molten materials, cutting, shaping and grinding of materials, heat treatment, tempering or kiln firing of any metal or other materials, welding fabrication processes, explosive materials, caustic solutions, radioactive materials.

Again, STUDENTS ARE REQUIRED TO WEAR GOGGLES IN THE LAB AT ALL TIMES, EXCEPT AS SPECIFIED BY THE INSTRUCTOR. Students must wear closed toe and heel shoes, pants/skirt below the knee, and shirts with sleeves in lab. Jeans/pants with holes from the knee up are not allowed. Food, drinks, and cell phones are NOT allowed.