Instructor Information

- Instructor: Dr. Kimberly Smith
- Office Location: PS-118
- Office Hours: Mon. 11-12, Wed 3:30-5:30, HT2 Mon. 4-6
- Phone: 623-845-4769
- Email: Kimberly.Smith@gccaz.edu
- Website: [http://web.gccaz.edu/~kimld88531/chm090.htm](http://web.gccaz.edu/~kimld88531/chm090.htm)

Course Information

- Course format: Face to Face
- Credit hours: 1.0
- Classroom location: PS 150
- Course days and times: Fridays 9:00-10:50 AM
- 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 2.0 hours on course content or seat time (direct instruction), and 4.0 hours on out-of-class student work weekly. Accelerated courses will require additional time per week.
- Final Exam day and time: There is no Final Exam in CHM 090

Course Description

A developmental course designed to review basic math and chemistry principles for students deficient or insecure in these areas. Stresses individualized instruction and hands-on experience. Serves to prepare the student for CHM130. [https://aztransmac2.asu.edu/cgi-bin/WebObjects/acres.woa/wa/freeForm2?id=49872](https://aztransmac2.asu.edu/cgi-bin/WebObjects/acres.woa/wa/freeForm2?id=49872)

Course Competencies

1. Solve elementary math problems with a calculator and selected operations without the use of a calculator. (I)
2. Estimate the answer to a numerical problem in order to validate a calculated answer. (I)
3. Identify units of length, volume, and density and their interrelationships. (II)
4. Calculate volume and density from appropriate measurements. (II)
5. Read and analyze story problems in chemistry involving measurements and set up the math operations needed to solve them. (II)
6. Use the factor-label method of problem solving in chemistry. (II)
7. Convert metric measurements to English and vice versa. (II)
8. Read and follow directions for routine chemistry lab operations. (III)
9. Manipulate and read common measuring instruments in the chemistry lab. (III)
10. Record in usable form observations of reactions and data from measurements. (III)
11. Explain chemistry terms and concepts (atoms, molecules, energy, physical and chemical changes) and give appropriate examples. (IV)
12. Define law, theory, and hypothesis, and relate these terms to use of the scientific method. (IV)
13. Identify assumptions and reasoning patterns underlying newspaper articles and advertising claims, and compare to the scientific method. (IV)
Textbooks, Materials and Technologies

Textbooks – there is no text for this course. All material is at http://web.gccaz.edu/~kimld88531/chm090.htm

Tutoring occurs daily: http://www2.gccaz.edu/academics/departments/chemistry/tutoring

Calculator - a non-programmable scientific calculator is required such as the TI-30XA

Goggles – Safety splash goggles are required in the lab portion of this course, not safety glasses

Attendance Requirements

Attendance in lecture is mandatory and necessary for adequate performance in the class. Instruction begins on the first day of class. Two or more unexcused 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. Do not bring friends, spouses, children, food, alcohol, firearms, illegal drugs or non-service animals to class.

Withdrawal Policy: It is the responsibility of the student to drop the course before the deadline for student-initiated withdrawal. Students should use the Student Information System (SIS) to withdraw from the course. The instructor may drop a student for excessive absences (as defined by the instructor) with a grade of W or Y, depending on course grade at time of withdrawal. 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” if the current course average is 60% or better, or a “Y” if the current course average is less than 60%. Students may not withdraw during the last week of the semester; an A-F grade will be assigned. Note: A grade of “Y” counts as an “F” in your GPA until the class is retaken and a higher grade is earned. If you require a letter grade because of financial aid, you must continue to attend class.

Grading Standards & Practices

You have 800 points to earn during the 8 weeks. Divide your points by 8 to get your %.

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Percent Range</th>
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<tbody>
<tr>
<td>A</td>
<td>90-100%</td>
</tr>
<tr>
<td>B</td>
<td>80-89%</td>
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<tr>
<td>C</td>
<td>70-79%</td>
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<tr>
<td>D</td>
<td>60-69%</td>
</tr>
<tr>
<td>F</td>
<td>0-59%</td>
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You will receive a grade of F if you earn less than 60% or fail to complete the course by the established date or without benefit of an official withdrawal.

Late Work

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 within 10 minutes of class start time on the due date. 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.
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 class 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

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
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<tbody>
<tr>
<td>Aug 25, Oct 20</td>
<td>Introduction, Factor label method, single step conversions</td>
</tr>
<tr>
<td>Sept 1, Oct 27</td>
<td>Multi step conversions, <strong>Lab:</strong> Mass and Length</td>
</tr>
<tr>
<td>Sept 8, Nov 3</td>
<td>Metric conversions, <strong>Lab:</strong> Volume</td>
</tr>
<tr>
<td>Sept 15, Nov 17</td>
<td>Density, <strong>Lab:</strong> Density last day to W yourself</td>
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<tr>
<td>Sept 22, Dec 1</td>
<td>Percents, <strong>Lab:</strong> Percent of a hydrate Optional extra credit due</td>
</tr>
<tr>
<td>Sept 29, Dec 8</td>
<td>Matter</td>
</tr>
<tr>
<td>Oct 6, Dec 8</td>
<td>Atomic Structure last day instructor can W/Y you</td>
</tr>
<tr>
<td>Oct 13, Dec 15</td>
<td>Periodic Table and Ions</td>
</tr>
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Instructor Expectations

You are responsible for the information contained in this syllabus. If you have questions or concerns about any of the policies please see me as soon as possible so we can address them. Every student is expected to know and comply with all current published policies, rules, and regulations as printed in the college catalog (http://www2.gccaz.edu/gcc-catalog), class schedule, and/or student handbook (http://www2.gccaz.edu/student-life/office-student-life/student-handbook).

Any student caught cheating or using unauthorized testing aids will be dealt with in an appropriately severe manner. At a minimum, the student will receive a “0” on the assignment in question. Repeat offenses will warrant a failing grade in the class and a visit to the Dean’s office.

**Cell phone Policy:** Cell phones must be off while in lab classrooms. Department policy.

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**

- 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
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

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 responsible for the content of the syllabus.

Information for Students with Disabilities

If you have a documented disability, including a learning disability, and would like to discuss possible accommodations, please contact the GCC Disability Resources and Services office at 623.845.3080 or email drsfrontdesk@gccaz.edu. Website http://www2.gccaz.edu/disability-services

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.

Sexual Harassment is any unwelcome, verbal or physical conduct of a sexual nature that is sufficiently severe, persistent or pervasive that it alters working conditions and creates a hostile environment or reasonably interferes with, limits, or deprives a student of the ability to participate in or benefit from any educational program or activity.

Sexual harassment and discrimination in any college education program or activity are prohibited. Sexual Harassment may include hostile environment harassment, sexual assault, inducing incapacitation for sexual purposes, sexual exploitation or dating violence and stalking.

Students should report any discrimination and/or harassment they experience and/or observe to the GCC Office of Student Life in the Student Union. Phone (623) 845-3525 or email laura.dodrill@gccaz.edu.

To view the full Sexual Harassment Policy refer to the Student Handbook, Sexual Harassment Policy for Students (AR 2.4.4) (see also 5.1.8).

Assumption of Risk Forms: These forms need to be printed, read, signed and handed in by the second class meeting. If your form is not turned in, you cannot participate in the labs.

Hints: Be prepared for class by printing out your materials BEFORE CLASS and reading over them! This will save you a tremendous amount of time. If you have questions and/or need help, SEE ME!