Course Syllabus
General Chemistry I: CHM 173

Netiquette
Respect the diversity of opinions among the instructor and classmates and engage with them in a courteous, respectful, and professional manner. All posts and classroom communication must be conducted in accordance with the student code of conduct. Think before you push the Send button. Did you say just what you meant? How will the person on the other end interpret the words?

Communication:
Faculty Communication with Students:
Discuss how faculty will contact students.

Student Communication with Faculty:
Discuss how students will contact faculty when they have questions or concerns.
Course Description:
CHM 173 General Chemistry I

This first course in a two-semester sequence in chemistry provides a comprehensive introduction to chemical principles and is intended for students who are pursuing science, mathematics, engineering, and premed studies. Topics covered include scientific notation, dimensional analysis, thermochemistry, atomic structure, molecular geometry and bonding theories, stoichiometry, chemical reactions, kinetic theory of gases, as well as properties of solids, liquids and solutions. The course emphasizes critical thinking, analytical skills and problem solving. The laboratory sessions are intended to reinforce the concepts presented in lecture. Prerequisites: High School Algebra and Chemistry or MAT 040 and SCI 170, or equivalent, or permission of Instructor. General Education: N.

Course Learning Outcomes:
Students will:

1. Manipulate equations and analyze data in chemical processes.
2. Utilize models to describe chemical structure.
3. Generate chemical names and formulas.
4. Explain atomic theory and be able to compare chemical and physical properties of elements on the periodic table.
5. Design and critique laboratory procedures.
6. Develop explanations for experimental results by interpreting data.

General Education Learning Outcomes:
Natural Sciences (and Scientific Reasoning) (N):

Students will demonstrate scientific reasoning applied to the natural world, including
- an understanding of the methods scientists use to explore natural phenomena, including observation, hypothesis development, measurement and data collection, experimentation, evaluation of evidence, and employment of data analysis or mathematical modeling; and
- application of scientific data, concepts, and models in one of the natural sciences.

Program Learning Outcomes:
Health Sciences (AS) (Outcomes relative to course are shaded.)

Students will:

- Demonstrate the safe and proper use of scientific instrumentation, measuring devices, chemical reagents, media, and/or tools of science in a laboratory setting.
- Demonstrate communication, problem solving and critical thinking skills pertinent in the healthcare sector.
• Understand and utilize scientific method.
• Promote health and wellness among members of the college and/or local communities through service learning.

Course Resources:

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<td>Materials</td>
<td>Enter all additional required materials and tools needed to complete course here.</td>
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<td>Access</td>
<td>List access codes needed for websites or other software.</td>
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Course Policies:
Click here to describe how students will participate in your class. Include policies regarding missed exams, makeup exams, extra credit assignments, late assignments, missed assignments, etc.

Course Delivery:

Course Content:
Describe how students will access course materials (handouts, Brightspace, textbook,...). Keep Accessibility in mind as you determine how students will access the materials.

Lecture Format:
Traditional, On Campus format.

Student Expectations specific to this course:
Describe what you expect students to do as it relates to your course, how students will be expected to participate in your course, how students should submit assignments, exams, quizzes, or any additional assignments (presentations, projects,...) in person or in Brightspace.

Course Outline and Schedule

Grading Method:
Click here to enter a clear explanation of how students will be evaluated, including a description of course assessments and a statement of the assessment process and measurements. Include weight/percentages for quizzes, exams, papers, projects, homework, attendance, participation, etc.

Grading Scale:

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