Chemistry 101 – General Chemistry
Lecture TTh (14617) 8:00 am – 9:25 am  Room SCC-150
Lab TTh (14622) 9:35 am – 12:40 pm  Room SCC-320

Instructor:  Dr. Arias  
Phone: (310) 233-4511  
Office: SCC-259  
E-mail: ariasjj@lahc.edu

Tutor (LRC): 
TBA

Office Hours: MW 11:00 am – 12:00 pm/ TTh 12:40 pm – 1:30 pm*

Textbooks and Supplies:
LA Harbor Laboratory Manual (available on course webpage)  
Laboratory Notebook (with duplicate sheets)  
Laboratory safety glasses/goggles  
Scientific Calculator (non-programmable)

**Chemistry Materials Fee ($20 paid for by the end of the second week).**

Prerequisites: Satisfactory completion (C or better) of Chemistry 065 or the equivalent and Math 123C. Eligibility for English 101 or concurrent enrollment in English 28.

Course Description: This course is a 5 unit course transferable to both the UC and CSU systems. The topics covered will include the following: physical measurements, atomic theory, stoichiometry, chemical reactions, quantitative analysis, gas laws, thermochemistry, quantum theory, electron configuration, chemical periodicity, molecular bonding, VSEPR theory, valence bond theory, molecular orbital theory, states of matter, and solutions.

Grading:  
<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
<th>Scale</th>
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</thead>
<tbody>
<tr>
<td>Homework</td>
<td>50</td>
<td>A 90 – 100%</td>
</tr>
<tr>
<td>Laboratory</td>
<td>200</td>
<td>B 80 – 89%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>50</td>
<td>C 70 – 79%</td>
</tr>
<tr>
<td>Exams</td>
<td>300</td>
<td>D 60 – 69%</td>
</tr>
<tr>
<td>Final</td>
<td>200</td>
<td>F 0 – 59%</td>
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<tr>
<td>Total</td>
<td>800</td>
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Homework: 10 homework assignments will be collected during the semester. Each homework assignment is worth 5 points. Late homework will be accepted for half credit. A student solution manual may be available at the library reference desk.

Quizzes: There will be 7 quizzes during the semester. The lowest 2 scores will be dropped. No make-up quizzes will be given. The solutions will be posted on the course webpage.

Exams: There will be 3 examinations given during the semester. Each exam will be worth 100 points. No make-up exams will be given unless you have proof of a medical emergency. The exam dates are: Exam 1 (3/12), Exam 2 (4/23), Exam 3 (5/21).

Final: The final examination is worth 200 points and is cumulative. You must take the final examination to receive credit for the class. June 2, 8:00 am – 10:00 am.
Course Syllabus

Course Content:

Chapter 2. Atoms and Elements.
Chapter 3. Molecules, Compounds, and Chemical Equations.
Chapter 4. Chemical Quantities and Aqueous Reactions.
Chapter 5. Gases.
Chapter 6. Thermodynamics.
Chapter 7. Quantum Mechanics.
Chapter 8. Electron Configuration.
Chapter 10. Valence Bond and Molecular Orbital Theory.
Chapter 11. Liquid, Solids, and Intermolecular Forces.
Chapter 12. Solutions.

Academic Dishonesty: Cheating and or plagiarism will result in an F for the assignment and may result in an F grade for the course. The dishonest student may then be reported to the administration for further disciplinary action. All forms of communication with others are considered cheating during an exam. Cell phones, text messengers, and programmable calculators may not be used during an exam. (Academic Policy)

Attendance Policy: It is the responsibility of the student to attend lectures and labs. Failure to attend lecture and/or lab during the first two weeks of the semester may result in being dropped from the class. Failure to attend lecture may result in zeros on homework, quizzes, and exams due on those days. Failure to report to lab may result in no credit for the course. Attendance is worth up to 5 points per day for each lab session. Showing up late or leaving before the experiment is complete will result in a loss of points. Not participating in the lab experiments will also earn zero points.

Student Learning Outcomes (SLOs) – As a result of successfully completing the course requirements a student will develop competency in the following:

Cognitive Skills – Problem Solving and Reasoning
Writing Skills – Technical Scientific Report Writing
Laboratory Skills – Mastery of Laboratory Techniques (application of cognitive skills)

MISSION
Los Angeles Harbor College promotes access and student success through associate and transfer degrees, certificates, economic and workforce development, and basic skills instruction. Our educational programs and support services meet the needs of diverse communities as measured by campus institutional learning outcomes.

VISION
Harbor College provides a stimulating learning environment that prepares members within the community to meet goals and opportunities successfully.

VALUES
Student Success, Excellence, Integrity, A Supportive Environment, Personal and Institutional Accountability, and Civic Responsibility.