Introductory General Chemistry, Chem. 065, 4 Units
Los Angeles Harbor College
Division of Physical Sciences
Fall 2017

Instructors
Lecture: Lida Latifzadeh, Ph.D., Sections: H01, H02, and H03
Tuesday, Thursday: 3:30 PM -4:55 PM, SCC 150
Office Hours: Tuesday, Thursday : 2:00 -3:20 PM, SCC 150 (The location of office hours is subject to change)
E-mail: masoudll@lahc.edu

Laboratory:
*Melvin Kantz, Ph. D., Section –H02A, Tuesday, 11:10 AM – 2:20 PM , SCC 318
*Professor S, Toeque, II, Section-H01A, Thursday, 8:00 AM – 11:10 AM, SCC 318 and Section- H03A, Thursday: 5:10 PM-8:20 PM, SCC 315

Chemistry Webb address: http://lahc.edu/classes/chemistry/index.html
Or http://lahc.edu ---→ academic Departments---→ chemistry

Course Catalog: Chem. 065-Introductory General Chemistry (4 Units) UC, CSU
Lecture: 3 Hours and 20 minutes per week
Not often for credit to students who have credit for chemistry 55.

Course Prerequisite: Basic algebra or two years of high school algebra background.

Course Description: This course details fundamental theory and principles of atomic and molecular structure, physical states and chemical reactions. Included is the study of elements, compounds, periodic relationships, bonding, acids and bases, oxidation-reduction, energy, solutions, electrolytes and chemical equations. Descriptive chemistry of water and selected nonmetals including hydrogen, oxygen and carbon is presented.

Course Objectives: Chem. 065 provides an insight into general of chemistry at introductory level. The course covers scientific measurements using the metric and English systems, types of matter and heat energy calculations, describing the structure of atom using Bohr Theory, explaining the periodic table and identifying elements in the periodic table, Nomenclature of inorganic compounds using Stock system, balancing chemical reactions and types of chemical reactions, stoichiometric calculations, The gas laws including Boyle’s, Charles’, Gay-Lussac’s, Combined, Avogadro’s, Ideal and Dalton’s, Types of chemical bonds and the Lewis structure of ionic and covalent compounds, types of crystalline solids, types of intermolecular forces and boiling points, Physical properties of solids, chemical and physical properties of water, solutions and solubility rules, Arrhenius acids and bases, Bronsted-Lowry Acids and Bases and calculating pH of strong acids and strong bases.
Student Learning Outcomes (SLO)
(1): Select and apply fundamental principles of chemistry to problem solving.
(2): Describe scientific method as applied to chemistry.
(3): Describe and distinguish physical properties and chemical properties
(4): Understand the sub particle structure of atom.
(5): Name and identify inorganic chemical compounds.
(6): Describe simple chemical formulas and reactions.
(7): Perform chemical quantity calculations.
(6): Demonstrate observational skills while performing laboratory experiments.
(7): Utilize modern chemical equipment in the laboratory.
(8): Describe and discuss chemistry issues to human health and environment.
(9) Describe and discuss the role of chemistry in society.
Here is the link to the lahc course slo assessments:
http://www.lahc.edu/govplanning/index.html
http://lahc.edu/govplanning/accreditation/documents.html

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<th>Program Student Learning Outcomes</th>
<th>Means of Assessment and Criteria for Success</th>
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<td>1. Interpret laboratory data and communicate quantitative and relational information.</td>
<td>Students will read laboratory instructions and provide data to support their computations and conclusion(s). They will write laboratory reports using short paragraphs stating the hypothesis, data and conclusion(s). Scored by department rubric.</td>
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<td>2. Apply science formulas to solve problems that arise in the laboratory setting with and without the use of technology</td>
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<td>3. Communicate content information formally, using appropriate science notation and terminology.</td>
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<td>4. Engage in logical and critical thinking.</td>
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Attendance: This course is a combination of lab. and lecture and if you stop attending the lab. but participate the lecture you will fail the course. You are responsible for all announcements and the materials covered in the lecture if you miss the class.

Required Text and Supplementary Materials
Textbook: There are two options for getting the textbook:
1.) Introductory Chemistry by Charles H. Corwin, 8th, or 7th or 6th Edition, and Publisher: prentice Hall. The whole package including the textbook, lab. manual and Masteringchemistry code can be purchased from Bookstore.
2.) Electronic version of the textbook which can be rented online through Pearson publisher: using the http://tinyurl.com/choosescoursesmart web address. The web address provides the instructions to get the e-textbook.

* **Laboratory Manual:** *Laboratory Manual, Introductory Chemistry by Charles H. Corwin or by S, Toeque, II (custom published), please check with your lab. Instructor and bookstore.*

* Scientific Calculator (capable of doing exponential notation calculations)

* Safety Goggles (Instructor Approved)

* **Combination lock:** Padlocks (one per group) must be purchased from the bookstore by the second lab. meeting. **All other padlocks are unacceptable.**

* **Scranton:** Scranton number 882

**Exams:** Exams will be given at the beginning of lecture. The maximum time for each exam is 2 hours depending on the materials being tested. Exams are multiple choice and you are responsible for anything covered and discussed in the lecture according to the course curriculum requirement. In general, materials discussed or stressed in the class are what the instructor believes to be most important and most likely to be stressed on exams. The first exam will cover the materials from the beginning of the semester until approximately the date of the exam. The second test will cover the materials after the first exam. The third exam will cover the materials after the second exam and the fourth exam covers the course subjects after the third exam. However, some of the earlier materials are required for understanding and should not be forgotten. **Failure of taking final exam will result in receiving grade of F in this course.**

**There will be no make up exam, you can miss one exam by providing a valid document otherwise you will get grade of zero for the missing exam.**

**Homework and Practice Problems:** Homework will be administered and graded either through MasteringChemistry: www.masteringchemistry.com, or solving the homework problems posted in the syllabus. All students can have an online access code. Due dates will be announced in class and in the masteringchemistry site. It is the student’s responsibility to submit their homework on time. In addition, suggested problems from the textbook will be provided. It is highly advisable that students also work through the suggested problems in addition to the homework. The suggested problems will not be collected or graded.

Additional resource:  http://www.lahc.edu/classes/chemistry/index.html

**Methods of Evaluation:**

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<td>3 Midterm exams (each 100 points)</td>
<td>300 points</td>
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<td>Final exam:</td>
<td>150 points</td>
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<td>Homework</td>
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Lab.                                                                             150 points
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<td>620 points</td>
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Grade distribution:
A: 90-100%,   B: 89-77%,   C: 76-65%,   D: 64-60%
F: < 60%

Withdrawal from Class
It is student’s responsibility to withdraw the course. Official withdrawal from class may be processed through the online system, telephone, or in the Admissions Office. Please check the deadlines in the college.

Laboratory: You should read and fully understand the experiments and the lab. safety before coming to the lab. If there is a pre-assignment (pre-lab.) for the experiment, it is due to the day of lab. before starting the experiment, even it has not been specified that there is a pre-lab. However, some pre-labs. are hard to find unless you read through the whole experiment. There is no make up lab. and points will be deducted for messy, unsafe, incomplete or late work. Due dates of lab. reports will be announced. for each lab.
If you miss any lab., you are required to provide a valid document and then you can write the lab. report and submit it. You will receive score of zero for the lab. report of missing lab. if you do not provide the valid document.
You must wear instructor-approved goggles in order to work in the lab. The appropriate goggles are sold in the book store. Students without having goggles will be asked to leave the lab. and receive grade of zero for repeated infractions of this rule.
No eating, No drinking and no chewing gum in the lab.
Wash lab. equipments and your hands after completion of the experiment.

Academic Courtesy: Students should be on time and prepared for class. Talking during lecture is disruptive. Questions related to classroom topics are greatly encouraged. Please refrain from side conversations even if these discussions pertain to the class as it can be disruptive for other students. It is better to ask the instructor for clarification than to disrupt the class with talking. Turn off cell phones, pagers, iPods, MP3 players and other personal electronic devices as these are disruptive to everybody.

Cheating, Plagiarism, Academic Dishonesty: Disciplinary actions will be taken for all cases of cheating, plagiarism, or dishonesty. All work that you submit must be your own work. http://www.lahc.edu/classes/Academic_Policy.html

Grades are earned. Grades will never be negotiated, appointed or gifted. It is your responsibility to learn the course materials (subjects) fluently to do well in quizzes and exams. Study constantly and effectively and manage your time for studying during the semester. You are required to answer the assigned questions and solve the assigned problems independently.
Success is a matter of preparation and repetition. Make use all possible resources: your textbook, the lecture notes, internet chemistry resources, LRC of the Department, and your fellow students. Please keep in mind that everything in chemistry builds on itself and the final exam is cumulative and comprehensive, so do not let any gaps develop.
Finally, come to every class prepared and on time.

**Student Assistant Center**

Los Angeles Harbor College is committed to providing educational accommodations for students with special needs upon the timely request by the student to the instructor. A student with a special need, who would like to request an academic accommodation, is responsible for identifying herself/himself to the instructor and to the Special Resources Center.