Chemistry 102: Spring 2019 – General Chemistry (16898)
Lecture MW 1:00pm – 2:25 pm Room SCC-150
Lab MW (16902) 9:35 am – 12:40 pm Room SCC-320 (Ibe B)
Lab #2 MW 3:00 pm – 6:00 pm Room SCC-320 (Sowa G)

Instructor: Basil O. Ibe, Ph.D. Tutor (LRC): Kishan Chand
Phone: (310) 233-4160
Office: SCC-257
E-mail: ibebo@lahc.edu
Office Hours: TTh 11:00 am – 2:00 pm; Wed 2:00 pm – 4:00 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)

Prerequisites: Completion Chemistry 101 or the equivalent with a grade of C or better. Cell phones shall not be used during exams (even if being used as a calculator).

Course Description: This course is a 5 unit course transferable to both the UC and CSU systems. Topics covered will include the following: chemical kinetics, chemical equilibrium, acid-base equilibrium, solubility, complex-ion equilibrium, thermodynamics, electrochemistry, nuclear chemistry, main group elements, transition elements, coordination compounds and introductory organic chemistry.

EXAM SCHEDULE SUMMARY
Exams are given during lecture periods and cover materials discussed in class and those covered in laboratory sessions. Each in-class regular exam will comprise of a section on filling the blanks or multiple choice questions, section of non-mechanism-based questions, and section requiring student to show methods of calculation. **No bathroom breaks are allowed during exams**

EXAM 1, Wednesday March 6, 2019.
    Chapters 14, 15, 16 and related laboratory activities

EXAM 2, Wednesday April 2, 2019.
    Chapters 17, 18, 19 and related laboratory activities

    Chapters 20, 23, 24 and related laboratory activities

EXAM 4, Wednesday May 29, 2019.
    Chapters 21, 22, 25 and related laboratory activities
**FINAL EXAM: Monday June 3, 2019 @ 10:00 am-12:00 p.m.**

Comprehensive examination of semester course work, final exam may be completely multiple choice questions or formatted as in regular in-class exams.

**POINTS SUMMARY:**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Points</th>
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<tbody>
<tr>
<td>4 In-class chapter exams 100 points each</td>
<td>400</td>
</tr>
<tr>
<td>Final exam</td>
<td>100</td>
</tr>
<tr>
<td>Take home quizzes</td>
<td>100</td>
</tr>
<tr>
<td>End-of-Chapter quizzes</td>
<td>100</td>
</tr>
<tr>
<td>Laboratory Examination</td>
<td>100</td>
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<tr>
<td>Lab special project &amp; its report</td>
<td>100</td>
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<tr>
<td>Laboratory problems</td>
<td>100</td>
</tr>
<tr>
<td>Pre-lab quizzes</td>
<td>100</td>
</tr>
<tr>
<td>Regular Lab reports</td>
<td>100</td>
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</tbody>
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**Total points possible** 1,200 points

**Assignment of letter grades (the grade scale, no curve).**

<table>
<thead>
<tr>
<th>Points Range</th>
<th>Grade</th>
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<tbody>
<tr>
<td>1104 - 1200</td>
<td>A</td>
</tr>
<tr>
<td>960 – 1103</td>
<td>B</td>
</tr>
<tr>
<td>840 – 959</td>
<td>C</td>
</tr>
<tr>
<td>720 - 839</td>
<td>D</td>
</tr>
<tr>
<td>000 – 719</td>
<td>F</td>
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</table>

**Homework:** Each homework assignment is worth 10 points. Late homework will not be accepted. A student solution manual **may be** available at the library reference desk.

**Quizzes; given 10-15 minutes of lecture time:** In-class quizzes will be given during the semester. The lowest score will be dropped. No make-up quizzes will be given (therefore the missed quiz is the one the student drops). When necessary the solutions will be discussed in class.

**Exams:** There will be 4 examinations (so called MIDTERM) 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 given above. Please place these dates on your personal calendar.

**Final:** The final examination is worth 100 points and is cumulative. Every student must take the final examination to receive credit for the class (otherwise “Incomplete” shows on final Grade). The final exam date is given above.

**Reading assignment** from the weekly chemistry journal: Chemical and Engineering News or from other sources. The student writes a one- to two-page summary of the reading. A student may be called upon to relate reading significance to the class. **Each reading assignment is treated as a 20-point take home quiz.**
Course Content:
Chapter 14: Chemical Kinetics
Chapter 15: Chemical Equilibrium
Chapter 16: Acids and Bases
Chapter 17: Aqueous Ionic Equilibrium
Chapter 18: Free Energy and Thermodynamics
Chapter 19: Electrochemistry

Chapter 20: Radioactivity and Nuclear Chemistry
Chapter 23: Chemistry of Nonmetals
Chapter 24: Metals and metallurgy
Chapter 25: Transition Metal and Compounds
Chapter 21: Organic Chemistry
Chapter 22: Biochemistry (May be)

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. If you stop coming, please be sure to drop the course officially. If your name shows up in grade collection sheet, you will receive an “F” grade. Failure to attend lecture may result in zeros on homework, quizzes, and exams due on those days. These elements of course structure do not have make-ups. 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) – The student should develop the following competence in chemistry on successful completion of the course:

Cognitive (Reasoning) Skills – Problem Solving and Reasoning
Writing Skills – Technical and 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.