**GENERAL CHEMISTRY LAB (CHE101L), Spring 23**

**Department of Biochemistry and Microbiology**

**North South University**

**Bashundhara, Dhaka-1229**

**Instructor: Fahd Bin Zahed, *B.S. & M.S.* (USA)    
Faculty Initial: FZD**

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| Course Code | CHE101L | | Course Title | | General Chemistry Lab |
| Instructor Details | Instructor: Fahd Bin Zahed, *B.S. & M.S.* (USA)   Faculty Initial: FZD  Office: SAC 833-(E)  Office phone: + (880) -2- 55668200 Ext. 6416  E-mail: [fahd.zahed@northsouth.edu](mailto:fahd.zahed@northsouth.edu) | | Position & Initial | | Lecturer (FZD)  Core Faculty Member |
| Department | Biochemistry & Microbiology | | Program | | Undergraduate |
| Contact Hours | 1 | | Credit Hours | | 1 |
| Prerequisites | None | | | | |
| Teaching Methods/  Approaches | √ Lecture | ѵ Group Presentation & Discussion | Ѵ Demonstration | *×* Problem solving | |
| *×* Project | √ Others | | | |
| Teaching Aids | √ Multi-media | OHP | √ Board and Marker | √ Others | |

**General Chemistry Lab Component (CHE101L) Course Description:** Contains experiments that cover some of the main areas of chemistry students will encounter in the lecture part of **Chem101**. Unlike some traditional laboratory approaches, the students are not expected to know anything about the subject being considered before they go to the lab. These are **Guided Inquiry Experiments**. The design and purpose of the experiments is to introduce the students the subject area and give a concrete experience with the concepts before they are discussed in a more abstract way in the lecture. Students will be often exposed to certain concepts and ideas for the first time during the lab which will help them their understanding of the concepts. Since the experiments are designed to help learn some of the laboratory techniques and procedures that the Scientists investigate in nature, they also introduce some of the basic concepts of chemistry. In these guided enquiry experiments, students were given specific instructions as to what to conduct and answer questions about the data collected. **Credit - 1 unit**.

**Contents:**

1. Measurements and Acid-Base Classification
2. Chemistry Model Kit System: Chemical Bonding & Molecular Structures
3. Dissolution Reactions: Heats of Dissociation
4. Determination of the concentration of an acid (two- parts)

**Learning Outcomes Outlined in the Syllabus Contents:** Completion of General Chemistry Lab Component (CHE101L) through the class performance and reports. Students should be able to produce reports based on any scientific experiments they do, answer questions that ask them to draw pictures, a Mental Model, to show their understanding at the atomic / molecular level which they are studying related to the scientific experiment.

**Methods of Assessing Outcomes:** The expected learning outcomes will be assessed through the class performance and report

**Marks Distribution:** Attendance / Pre-lab / Quiz ………................. 25%   
 3-lab reports..................................................... 75%

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 Total 100%

**Class Rules:**

1. Bring the following items to every class: **Notebook, Calculator, Periodic table, Textbook**.
2. No make-up quiz will be taken, and no incomplete grade (**I**) will be given.
3. Make-up Mid will be taken only for considerable reasons and must be informed earlier by e-mail or via phone.

**Grading:** NSU grading policy: <http://www.northsouth.edu/academic/grading-policy.html>

**Make up lab policy:** Permission to make-up a missed lab will be granted only for excused absences. Determination of what constitutes an excused absence will be at the discretion of the Lab Instructor. If the instructor chooses to grant a make-up, he/she will give the student written permission (**another form to be filled out by the students and signed by the instructor**) to attend another section of the same lab type. The student is to check the lab schedule to determine which lab to attend for the make-up. Upon arrival to the chosen section, the student is to present the written permission to the Lab Instructor or Lab Coordinator of the desired make-up section, who will admit them if space is available. Students in CHE101L labs should make up their labs ASAP, while sections from the missed experiment are still available.

**Courtesy:** This is a standard size class and can get noisy at times. Please respect those who want to hear by not participating in disruptive conversation, by not allowing cell phones to ring or by making derogatory remarks to others. You will be asked to leave if others complain about your behavior.

**Student code of conduct:** All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. All students must be familiar with the student conduct Code. The Code is available for review online at: [*http://www.northsouth.edu/student-code-of-conduct.html*](http://www.northsouth.edu/student-code-of-conduct.html)*.*

**Disclaimer**: The instructor holds the right to make necessary changes to the syllabus and the grading policies outlined here to best accommodate the interest of the class.

Sunday, January 29, 2023

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