

## Course Syllabus

### I. Basic Information for the Course

Chemistry 105-Fundamentals of Chemistry I  
Four Hours Credit

Instructor: Dr. Marlyn Newhouse

Office: WH 331 Phone: 661-5295

### II. Scope of the Course

This course is designed to be the beginning foundational course in the formal chemical education of nursing and allied health students who do not require a full year of general chemistry and a full year of organic chemistry for their pre-professional preparation. This course is an introduction to the basic principles of general inorganic chemistry. An emphasis is placed upon practical applications of chemistry to the health science field.

### III. Objectives of the Course

- A. To provide the elementary chemical background necessary for studies in the health sciences.
- B. To relate basic chemical principles, physiology, and medical treatment.
- C. To enhance critical thinking and problem solving skills within the discipline of chemistry.
- D. To develop both manipulative and analytical laboratory skills.

### IV. Texts to be Used

It is a customized selection from the text, *Introduction to General, Organic & Biochemistry 8<sup>th</sup> Ed.*, by Bettelheim, Brown Campbell and Farrel, ISBN 0-495-25763-X

Students are required to purchase the OWL homework tutorial for this text.

The lab manual will be available for sale at the first lab meeting.

Students are encouraged to purchase an inexpensive calculator for use in the course. Calculators may be used on all exams. Each person must bring his or her own calculator for exams. No calculator sharing will be permitted on exams.

### V. Assigned Reading

The required reading for this course includes chapter in the lecture textbook and all discussion in the laboratory textbook related to the experiments which will be assigned in the laboratory portion of this course. It is expected that the chapter(s) pertaining to each topic for a particular lecture will be read BEFORE attending class and reread subsequent to class attendance. Additional reading may be necessary in order to achieve full comprehension of the topics covered in the course.

### VI. Special Projects and Activities

In order to sharpen the awareness of the student concerning the current advances in science, each student will write a summary of an article from a scientific journal. The topic should be a chemistry topic of interest to the student. The summary should be typed, with any references cited, and at least two pages in length. An additional page should include a typed vocabulary list defining unfamiliar words. The due date for this is:\_\_\_\_\_

### VII. Method of Instruction

The primary method of instruction will be lecture with demonstrations in the classroom, films when appropriate, laboratory experiments, and utilization of homework.

The instructor will outline the material to be studied and will explain the concepts involved. It is then the student's responsibility to utilize the text to "fill in" the outline for study. It is very helpful to:

1. Take notes in class (student's questions and comments are welcomed in class)
2. Rewrite those notes after class adding details from the text
3. Read appropriate chapter in text and work all the assigned homework problems in the OWL online homework tutorial.
4. Ask questions if there are areas which need clarification

**VIII. Method of Evaluation**

Each activity shall be weighted as follows:

<u>Activity</u>	<u>Points</u>
Exam (s) (4)	400
Quizzes	100
Library	30
Homework Assignments	70
Laboratory	200
Final Exam	<u>200</u>
Total	1000

The final course grade will be assigned utilizing the following scale:

<u>Total Points</u>	<u>Course Grade</u>
1000-900	A
800-899	B
700-799	C
600-699	D
Below 600	F

**IX. Attendance in Lecture**

The student who expects to succeed in Chemistry 105, must attend class regularly. There can be a penalty for excessive absences.

Such a penalty may be assessed should an examination be missed for any reason other than a documented illness.

**X. Cheating Policy**

The penalty for cheating (giving or receiving aid on a test, plagiarism on papers, etc.) is an F in this course. The student will also be reported to the academic center as required by Union University School policy.

**XI. Other**

This syllabus is intended to help the student plan his work in the course and is in no way considered to be a contract. It is subject to change at any time by the instructor should a change be in the best interest of the class.