# **Global Learning Semesters**

# **Course Syllabus**

Course: CHEM-101 Basic Chemistry Department: Biomedical Sciences

Host Institution: University of Nicosia, Nicosia, Cyprus



Course Summary		
Course Code	Course Title	Recommended Credit Hours
CHEM-101	Basic Chemistry	3
Semester Offered	Contact Hours	Prerequisites
Please contact us	42-45	None
Department	Level of Course	Language of Instruction
Biomedical Sciences	Lower Division	English

### **Course Description**

The purpose of this course is to give students an understanding of the basic principles of chemistry and to raise fundamental questions that will strengthen their interest in life science. Using lectures, study exercises in class, home assignments and examples of applications of chemistry in the real world the student will be taught the properties of the most common chemical elements and compounds, about chemical energy and how do these relate to the living organism, industry and to the environment. The students will also be taught about the structure of atoms, how atoms combine to form molecules, about chemical solutions, chemical methods of purification and chemical reactions.

#### **Prerequisites**

None

### **Topic Areas**

- 1. The chemical elements; The atom and its structure.
- 2. Chemical bonds, chemical compounds, chemical reactions.
- 3. Physical and chemical properties of elements and compounds.
- 4. Chemical Energy.
- 5. Acids and Bases.
- 6. The chemistry of the atmosphere.
- 7. The chemistry of the earth.
- 8. The man use of metals and nonmetals.
- 9. Carbon and organic compounds.
- 10. Chemical Industry.
- 11. Chemical pollution.
- 12. Water purification.
- 13. Cells and batteries.
- 14. Chemistry and the living cells.

### **Readings and Resources**

## **Required Textbook**

•	Complete Chemistry by Rose Marie Gallagher and Paul Ingram, Oxford University Press, 2000. ISBN: 0-19-
	914799-X.