

Global Learning Semesters

Course Syllabus

Course: CHEM-150A Introduction to Chemistry I

Department: Biomedical Sciences

Host Institution: University of Nicosia, Nicosia, Cyprus



Course Summary		
Course Code	Course Title	Recommended Credit Hours
CHEM-150A	Introduction to Chemistry I	3
Semester Offered	Contact Hours	Prerequisites
Fall	56	Minimum Mathematics Proficiency.
Department	Level of Course	Language of Instruction
Biomedical Sciences	Lower Division	English

Course Description

This course offers an introduction to the fundamental principles of chemistry. Topics include the composition and structure of matter, measurements, significant figures, chemical stoichiometry, aqueous reactions, gases, electronic structure of atoms, chemical periodicity, chemical bonding and molecular geometry. Regular laboratory experiments and workshops on special topics place the class material into perspective.

Instructor

Dr. Photos Hajigeorgiou

Course Aims and Objectives

To introduce students to the general principles of theoretical and experimental chemistry, to develop strong problem-solving skills and competence in analyzing experimental data.

Teaching Methods

The course is delivered through a mixture of lectures supported by transparencies, tutorials in the analysis of experimental data, and assignments involving practical applications of theory.

Course Teaching Hours

56 hours (42 hours lectures + 14 hours data analysis tutorials)

Evaluation and Grading

Analysis Reports: 25%
Tests: 40%
Final Exam: 35%

Readings and Resources

Required Textbooks

Chemistry the Central Science, Ninth Edition by T.L. Brown, H.E. Lemay, B.E. Bursten and J.R. Burdge, Prentice Hall, 2003.

Intercollege Chemistry 150 Lecture Notes, by P.G. Hajigeorgiou.

Recommended Reading

Chemistry The Molecular Science, Second Edition, J. Olmsted III and G.M. Williams, WCB Publishers, 1997.