

Global Learning Semesters

Course Syllabus

Course: CHEM-160 General Chemistry II

Department: Biomedical Sciences

Host Institution: University of Nicosia, Nicosia, Cyprus



Course Summary		
Course Code	Course Title	Recommended Credit Hours
CHEM-160	General Chemistry II	3
Semester Offered	Contact Hours	Prerequisites
Spring	70	CHEM-150 General Chemistry I
Department	Level of Course	Language of Instruction
Biomedical Sciences	Lower Division	English

Course Description

This class is a continuation of CHEM-150. Topics include orbital hybridization, thermo chemistry, intermolecular forces, solubility and colligative properties, chemical kinetics and the theory of chemical equilibria, acid-base and other aqueous equilibria, electrochemistry and an introduction to organic chemistry. A regular laboratory program 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 a laboratory environment.

Teaching Methods

The course is delivered through a mixture of lectures supported by transparencies, laboratory experiments, workshops, assignments involving practical applications of theory, and a project on a subject related to the biomedical or natural sciences.

Course Teaching Hours

70 hours (42 hours lectures + 28 hours laboratory work)

Evaluation and Grading

Laboratory: 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 160 Laboratory Manual, by P.G. Hajigeorgiou.

Intercollege Chemistry 160 Lecture Notes, by P.G. Hajigeorgiou.

Recommended Reading

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