Global Learning Semesters
Course Syllabus
Course: CHEM-235A The Elements of Physical Chemistry
Department: Biomedical Sciences
Host Institution: University of Nicosia, Nicosia, Cyprus

Course Summary		
Course Code	**Course Title**	**Recommended Credit Hours**
CHEM-235A	The Elements of Physical Chemistry	3
Semester Offered	**Contact Hours**	**Prerequisites**
Fall, Spring	56	CHEM-160A or CHEM-160
Department	**Level of Course**	**Language of Instruction**
Biomedical Sciences	Lower Division	English

Course Description

The course offers an introduction to the fundamental principles of physical chemistry with emphasis on its applications to current research in biology, environmental sciences and engineering. Microscopic and molecular level phenomena are presented, discussed and tied to their physical bases. Theoretical concepts are examined and discussed as they apply in familiar topics from organic chemistry and biochemistry. Emphasis is placed on magnetic resonance and statistical thermodynamics.

Instructor

Dr. Photos Hajigeorgiou

Course Aims and Objectives

To give an appreciation for the basic principles of physical chemistry as applied to the health sciences.

Teaching Methods

The course is delivered through a mixture of lectures supported by transparencies, and includes tutorials on the analysis of experimental data in physical chemistry.

Course Teaching Hours

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

Evaluation and Grading

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

Readings and Resources

Required Textbook
The Elements of Physical Chemistry: With Applications in Biology. By Peter W. Atkins, 2001, W H Freeman and Co.

Recommended Reading
Applied Mathematics for Physical Chemistry, by James R. Barrante, 2nd Edition, 1998, Prentice Hall