Global Learning Semesters
Course Syllabus
Course: BIOL-325 Genetics
Department: Biomedical Sciences
Host Institution: University of Nicosia, Nicosia, Cyprus

Course Summary		
Course Code	**Course Title**	**Recommended Credit Hours**
BIOL-325	Genetics	3
Semester Offered	**Contact Hours**	**Prerequisites**
Fall, Spring	56	BIOL-160 and MATH-220
Department	**Level of Course**	**Language of Instruction**
Biomedical Sciences	Upper Division	English

Course Description

The course will provide a detailed presentation of Mendelian and non-Mendelian genetics, the relationship between chromosomes and genes and the mechanisms of inheritance via gene recombination, complementation etc. The course teaches how comparative analysis of present day genomes have helped us understand aspects of the evolutionary origin of human DNA and its organization. The course introduces the student to methods for tracking Mendelian inherited genetics traits and to human genetic disorders.

Instructor

Dr. V. Anastasiadou-Christophidou

Course Aims and Objectives

To impart an in depth understanding of the basic principles of Mendelian and non-Mendelian genetics.

Teaching Methods

The course is delivered through a mixture of lectures aided by means of transparencies, and by a weekly tutorial.

Course Teaching Hours

56 hours (42 hours lectures + 14 hours tutorials)

Evaluation and Grading

Homework	15-20%
Tests:	40-50%
Final Exam:	40%

Readings and Resources

Required Textbooks
Principles of Genetics W/Genetics: From Genes to Genomes, CD-ROM and Website Password Card, 7/e, Robert H. Tamarin, McGrow-Hill 2001, ISBN:0-07-248523-X.

Recommended Reading
Human Molecular Genetics, Tom Strachan and Andrew P. Read, Wiley-Liss, 2/e, 1999, ISBN: 0471330612
Mendelian Inheritance in Man, McKusick, V.A., 12/e, John Hopkins University Press, 1997.