

Global Learning Semesters

Course Syllabus

Course: BIOL-390A Molecular Biology

Department: Biomedical Sciences

Host Institution: University of Nicosia, Nicosia, Cyprus



Course Summary		
Course Code	Course Title	Recommended Credit Hours
BIOL-390A	Molecular Biology	4
Semester Offered	Contact Hours	Prerequisites
Fall, Spring	56	BIOL-160
Department	Level of Course	Language of Instruction
Biomedical Sciences	Upper Division	English

Course Description

The student is introduced to the molecular processes involved in gene function and regulation. Topics include a detailed study of cell activities like replication, transcription and translation with emphasis on protein-nucleic acid interactions. Molecular mechanisms of mutation and repair and the regulation of gene transcription in bacteria and eukaryotes.

Instructor

Dr. Evdokia Kastanos-Kassini

Course Aims and Objectives

To introduce students at the molecular level to the detailed function and regulation of genes.

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

Tutorial Exercises: 15-20%
Tests: 40-50%
Final Exam: 40%

Readings and Resources

Required Textbooks

Molecular Biology, 2/e, Robert F. Weaver, McGraw-Hill 2001, ISBN: 0-07-234517-9.
Molecular Biology of the Cell, Alberts B., Bray D., Lewis J., Raff M., Roberts K., Watson J.D., 3/e, Garland Publishing, 1994.

Recommended Reading

Human Molecular Genetics, T. Strachan and A.P. Read, 2/e, John Wiley and Sons Inc. 1999
DNA: The Secret of Life, James D. Watson, Andrew Berry, Knopf, 2003, ISBN: 0375415467