

MSc IN MOLECULAR BIOLOGY AND BIOMEDICAL SCIENCE

BIO 680 SCIENTIFIC METHODOLOGY IN MOLECULAR BIOLOGY

LITERATURE REVIEW IN THE FRAMES OF THE BIO 680 COURSE

(MSc students in Molecular Biology and Biomedical Science)

Literature review within the frames of the course titled BIO 680 Scientific Methodology in Molecular Biology and Biomedical Science, which is obligatory for students following the MSc program in Molecular Biology and Biomedical Science (MSc without research thesis).

This course aims at students' theoretical training in traditional scientific methodology (Scientific Hypothesis formulation, proof and modification through appropriate experimentation and interpretation of results) as well as in modern data-driven approaches that emerged after the development of high throughput technologies. The course will include the presentation and analysis of various scientific methods and techniques for the design, execution and presentation of Molecular Biology research. To this end, students will be educated in the critical reading and analysis of published research papers and in the presentation of research results and research proposals to an audience and in writing. Students will analyse a number of original and review articles on a subject in biological sciences that they choose in collaboration with their tutor, as well as study (using special laboratory manuals), the various methods of modern molecular biology, so that they become familiar with routine laboratory methods that molecular biologists use in their research.

DEPARTMENTAL REGULATION

Procedures

Students are eligible to sign up for this course once they have successfully completed 70 ECTS of coursework. Students will enroll electronically in BIO 680 using the BannerWeb system. Also the Students should complete the document titled 'Approval for registering in BIO 680'. The printed form completely filled in and with written approval of academic advisor must be delivered at the Department's Secretariat.

The presentation of BIO 680 will be given in the same style by all students of the MSc program in Molecular Biology and Biomedical Science, twice a year (at the end of fall and spring semesters). BIO 680 includes a written review after an extended literature study, and its oral presentation and examination. The examination date will be the one given as date of final exams by the University of Cyprus.

The examining committee consists of the course instructor (who will be also the coordinator) and an ad hoc Departmental committee (by two academic staff members

of the Department). The committees will be constituted at the beginning of each semester.

The subject of the review or study will be decided by the course instructor at the beginning of each semester. Before the beginning of each semester, the subjects will be made available in the course plan of the instructor. The instructor will evaluate both the oral presentation and the written text.

Presentation

The oral presentation of BIO 680 course is open to the public, unless there is some important reason, which the committee can evaluate at its discretion.

Grades of BIO 680

The BIO 680 course receives grades from 0 to 10, by ½ units.

Structure

The literature review within the BIO 680 course must have the following structure:

Text: Page A4, Fonts: Times New Roman, Font size: 12pt, Line space: 1.5, Page margins: 2 cm (upper, lower and right) and 3.5 cm (left).

- First page: Title, Student's name
- Summary up to 500 words in both Greek and English
- Introduction (10-20 pages) – General information on the subject, Importance
- Review of experimental results and methodology used, in thematic sections under different headings (20-30 pages)
- Discussion (5-10 pages) – Crucial unanswered questions and problems
- Literature (without any limits in extent)

The use of figures, diagrams and tables (with precise reference to the sources) is encouraged in both the introduction and the main body of the review.

The text should be either in Greek or in English.

The essay must be e-mailed as a pdf file to the Department's Secretariat.

APPROVAL FOR REGISTERING IN BIO 680 SCIENTIFIC MEHTODOLOGY IN MOLECULAR BIOLOGY

Students are eligible to sign up for this course once they have successfully completed 70 ECTS of coursework. Students will enroll electronically in BIO 680 using the BannerWeb system Also the Students should complete the document titled 'Approval for registering in BIO 680'. The printed form completely filled in and with written approval of academic advisor must be delivered at the Department's Secretariat.

Personal information: (Name and Surname)	
Identity Card Number:	
Email:	
Telephone Number:	
Title of Programme:	Master Degree in Biomedical Sciences
Courses that students have completed successfully:	
Name/Surname and Signature of Academic Advisor	