



STUDYING IN MGB CURRICULUM

DEPARTMENT OF MOLECULAR BIOLOGY & GENETICS

CURRICULUM

ACADEMIC YEAR 2018-2019

1st Semester	LECTURES	PRACTICALS	TEACHING HOURS	TEACHING CREDITS	ECTS	LECTURERS
Introduction to Biology	3	0	3	3	5	Chatzaki
Introduction to Computational Biology	3	1	4	4	5	Glykos
General & Inorganic Chemistry	3	0	3	3	5	Boulougouris
Organic Chemistry	3	0	3	3	5	Fylaktakidou
Physics for Biological Sciences	4	1	5	5	5	Kaldoudi
Laboratory course I	0	4	4	2	5	Koffa, Boulougouris, Fylaktakidou, Chatzaki
TOTAL				20	30	
2nd Semester	LECTURES	PRACTICALS	TEACHING HOURS	TEACHING CREDITS	ECTS	LECTURERS
Introduction to Organismal Biology	3	0	3	3	4	Chatzaki
Molecular Biology I	4	0	4	4	6	Sandaltzopoulos
Genetics I	3	0	3	3	4	Maroulakou
Biochemistry I	3	0	3	3	4	Katsani - Mavromara
Physical Chemistry and Elements of Biophysics	3	1	4	4	5	Boulougouris
English I	2	0	2	2	2	Nalbanti
Laboratory course II	0	4	4	2	5	Maroulakou, Mavromara, Boulougouris,, Fylaktakidou
TOTAL				21	30	

3rd Semester	LECTURES	PRACTICALS	TEACHING HOURS	TEACHING CREDITS	ECTS	LECTURERS
Molecular Biology II	4	0	4	4	5	Paleologou
Introduction to Molecular Biology Techniques	3	0	3	3	4	Skavdis
Cell Biology	4	0	4	4	5	Koffa
Biochemistry II	4	0	4	4	5	Mavromara-Katsani
Molecular Microbiology	3	0	3	3	4	Kourkoutas-Chlichlia
English II	2	0	2	2	2	Nalbanti
Laboratory course III	0	4	4	2	5	Kourkoutas, Koffa
TOTAL				22	30	
4th Semester	LECTURES	PRACTICALS	TEACHING HOURS	TEACHING CREDITS	ECTS	LECTURERS
Genetics II	3	1	4	4	4	Maroulakou-Fakis
Gene Expression and Cell Signalling	4	0	4	4	5	Galanis, Sandaltzopoulos
Physiology	4	0	4	4	5	Pappa
Biostatistics	2	1	3	3	3	Trypsianis-Boulougouris
Pedagogics	2	0	2	2	2	Kedra
Optional Modules (2X)	4	0	4	4	6	
Laboratory course IV	0	4	4	2	5	Pappa, Chatzaki
TOTAL				23	30	

5th Semester	LECTURES	PRACTICALS	TEACHING HOURS	TEACHING CREDITS	ECTS	LECTURERS
Developmental Biology	3	0	3	3	4	Grigoriou-Skavdis
Molecular Immunology	4	0	4	4	5	Chlichlia
Population and Evolutionary Genetics	3	1	4	4	5	
Bioinformatics	4	1	5	5	5	Glykos
Optional Modules (2X)	4	0	4	4	6	
Methods in Molecular Biology	0	4	4	4	5	Galani, Grigoriou, Paleologou, Sandaltzopoulos, Skavdis
TOTAL				24	30	
6th Semester	LECTURES	PRACTICALS	TEACHING HOURS	TEACHING CREDITS	ECTS	LECTURERS
Applied Biotechnology	3	0	3	3	4	Kourkoutas
Genomics	3	1	4	4	4	Maroulakou,Boukouvala
Regulation of Cell function	4	0	4	4	4	Galani, Paleologou
Introduction to Biomolecules Structure	3	0	3	3	4	Glykos
Career Development of Bioscientists	2	0	2	2	3	Kedra
Optional Modules (2X)	4	0	4	4	6	
Laboratory course VI	0	4	4	2	5	Malatos, Kourkoutas, Chlichlia
TOTAL				22	30	

7th Semester	LECTURES	PRACTICALS	TEACHING HOURS	TEACHING CREDITS	ECTS	LECTURERS
Human Genetics	4	1	5	5	5	Fakis
Application of Molecular Biology in Medical Sciences	3	1	4	4	5	Boukouvala
Molecular Neurobiology	3	0	3	3	4	Grigoriou- Paleologou
Proteomics	3	1	4	4	5	Katsani
Advanced Molecular Biology Techniques	3	0	3	3	5	Skavdis-Grigoriou
Optional Modules (2X)	4	0	4	4	6	
TOTAL				23	30	
8th Semester	LECTURES	PRACTICALS	TEACHING HOURS	TEACHING CREDITS	ECTS	LECTURERS
Degree Dissertation Thesis	10	30	40	20	30	
10 Optional Modules	20	0	20	20	30	
TOTAL				23	30	
CURRICULUM	150	42	187	180	240	

Optional Modules of Spring Semester

	LECTURES	PRACTICALS	TEACHING HOURS	TEACHING CREDITS	ECTS	LECTURERS
Advanced Themes in Bioinformatics	2	0	2	2	3	Glykos
Stem Cell and Regenerative Biology	2	0	2	2	3	Grigoriou
Behavioral Biology	2	0	2	2	3	Skavdis
Advanced Themes of Immunology	2	0	2	2	3	Chlichlia
Forensic Genetics	2	0	2	2	3	Fakis
Introduction to Bioscience Enterprise	2	0	2	2	3	
Practical Training	1	1	2	2	3	Paleologou
Teaching Practicum Course I (Microteaching)	1	1	2	2	6	Kedraka
Teaching Methodology	1	1	2	2	4	Kedraka
Advanced Themes in Computational Biology	2	0	2	2	3	Glykos
Advanced techniques and applications in cell biology	1	1	2	2	3	Koffa
Material Chemistry and Nanotechnology	1	1	2	2	3	Fylaktakidou
Histology	2	0	2	2	3	Lampropoulou
Counselling & Educational Psychology	1	1	2	2	3	Kedraka

The optional modules that are highlighted in orange can be attended at the 6th semester only

Optional Modules of Winter Semester

	LECTURES	PRACTICALS	TEACHING HOURS	TEACHING CREDITS	ECTS	LECTURERS
Virology	2	0	2	2	3	Mavromara-Chlichlia
Genetics of Aquired Disease and Translational Medicine	2	0	2	2	3	Maroulakou
Mechanisms of Oncogenesis	2	0	2	2	3	Galanis
Molecular Biotechnology and Nutrition	2	0	2	2	3	Kourkoutas-Galanis
Pharmacology	2	0	2	2	3	Pappa
Teaching Practicum Course II (Teaching in schools)	1	1	2	2	6	Kedraka
Adult Education	1	1	2	2	3	Kedraka
Organizational Psychology	1	1	2	2	3	Kedraka
Molecular Ecology	2	0	2	2	3	Chatzaki
Radiobiology	2	0	2	2	3	Zisimopoulos
Principles of Laboratory Animal Handling	2	0	2	2	3	Ypsilantis
Principles of Pharmaceutical Chemistry and Chemistry of Natural Products	2	0	2	2	3	Fylaktakidou
Bioethics	2	0	2	2	3	
Plant Molecular Biology	2	2	2	2	3	

The optional modules that are highlighted in orange can be attended at the 7th semester only