



Kafkas Üniversitesi
FACULTY OF SCIENCE AND LETTERS
Molecular Biology and Genetics
Moleküler Biyoloji ve Genetik

1.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
220232101	EXPERIMENTAL ANIMALS	2+2+0	Compulsory	7
220232103	PHYSICS I	3+0+0	Compulsory	5
220232105	GENERAL CHEMISTRY I	3+0+0	Compulsory	5
220232107	GENERAL CHEMISTRY LAB. I	0+2+0	Compulsory	4
220232109	COMPUTER I	1+2+0	Compulsory	3
220232151	TURKISH LANGUAGE I	2+0+0	Compulsory	1
220232161	FOREIGN LANGUAGE(ENGLISH) I	2+0+0	Compulsory	1
220232171	ATATURK'S PRINCIPLES AND REVOLUTION HISTORY I	2+0+0	Compulsory	1
220232181	CAREER PLANNING	1+0+0	Compulsory	2
220232141	PHYHSICAL EDUCATION AND FINE ARTS I	-	Elective	1
Total ECTS				30

220232141.1	PHYSICAL EDUCATION I	2+0+0	Elective	1
220232141.2	MUSIC I	2+0+0	Elective	1
220232141.3	ART OF PICTURES I	2+0+0	Elective	1

2.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
220232102	MEDICAL PLANTS	2+2+0	Compulsory	8
220232104	PHYSICS II	3+0+0	Compulsory	5
220232106	GENERAL CHEMISTRY II	3+0+0	Compulsory	6
220232108	GENERAL CHEMISTRY LAB. II	0+2+0	Compulsory	4
220232110	COMPUTER II	1+2+0	Compulsory	3
220232152	TURKISH LANGUAGE II	2+0+0	Compulsory	1
220232162	FOREIGN LANGUAGE(ENGLISH) II	2+0+0	Compulsory	1
220232172	ATATURK'S PRINCIPLES AND HISTORY OF REFORM I	2+0+0	Compulsory	1
220232142	PHYHSICAL EDUCATION AND FINE ARTS II	-	Elective	1
Total ECTS				30

220232142.1	PHYSICAL EDUCATION II	2+0+0	Elective	1
220232142.2	MUSIC II	2+0+0	Elective	1
220232142.3	ART OF PICTURES II	2+0+0	Elective	1

3.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
220232201	MOLECULAR BIOLOGY AND GENETICS INTRODUCTION I	3+0+0	Compulsory	4
220232203	MOLECULAR BIOLOGY AND GENETICS INTRODUCTION LAB. I	0+2+0	Compulsory	3
220232205	MOLECULAR CELL BIOLOGY I	3+0+0	Compulsory	4
220232207	MOLECULAR CELL BIOLOGY LAB. I	0+2+0	Compulsory	3
220232209	ORGANIC CHEMISTRY I	3+0+0	Compulsory	3
220232211	ORGANIC CHEMISTRY LAB. I	0+2+0	Compulsory	2
220232213	MOLECULAR BIOLOGY	3+0+0	Compulsory	4
220232215	MOLECULAR BIOLOGY LAB.	0+2+0	Compulsory	3
220232217	CHROMOSOME BIOLOGY	2+2+0	Compulsory	4
Total ECTS				30

4.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
220232202	MOLECULAR BIOLOGY AND GENETICS INTRODUCTION II	3+0+0	Compulsory	5
220232204	MOLECULAR BIOLOGY AND GENETICS INTRODUCTION LAB. II	0+2+0	Compulsory	4
220232206	MOLECULAR CELL BIOLOGY II	3+0+0	Compulsory	5
220232208	MOLECULAR CELL BIOLOGY LAB. II	0+2+0	Compulsory	4
220232210	ORGANIC CHEMISTRY II	3+0+0	Compulsory	4
220232212	ORGANIC CHEMISTRY LAB. II	0+2+0	Compulsory	3
220232214	MOLECULAR TAXONOMICS	2+2+0	Compulsory	5
Total ECTS				30

5.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS

220232301	MOLECULAR GENETICS I	3+0+0	Compulsory	6
220232303	MOLECULAR GENETICS LAB. I	0+2+0	Compulsory	3
220232305	BIOCHEMISTRY I	3+0+0	Compulsory	3
220232307	BIOCHEMISTRY LAB. I	0+2+0	Compulsory	2
220232309	POPULATION GENETICS	3+0+0	Compulsory	5
220232311	CLINICAL BIOCHEMISTRY	3+0+0	Compulsory	3
220232313	HUMAN GENETICS	2+2+0	Compulsory	5
220232315	SECONDER METABOLITES	2+2+0	Compulsory	3

Total ECTS 30

6.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
220232302	MOLECULAR GENETICS II	3+0+0	Compulsory	6
220232304	MOLECULAR GENETICS LAB. II	0+2+0	Compulsory	3
220232306	BIOCHEMISTRY II	3+0+0	Compulsory	3
220232308	BIOCHEMISTRY LAB. II	0+2+0	Compulsory	2
220232310	DEVELOPMENTAL BIOLOGY	3+0+0	Compulsory	4
220232312	AFFINITY TECHNIQUES	2+2+0	Compulsory	3
220232314	HEREDITARY DISEASES	2+2+0	Compulsory	5
220232316	MEDICAL GENETICS	2+2+0	Compulsory	4

Total ECTS 30

7.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
220232401	BIOTECHNOLOGY I	4+0+0	Compulsory	6
220232403	CYTOGENETICS	3+0+0	Compulsory	6
220232405	CANCER BIOLOGY	2+2+0	Compulsory	6
220232407	BIOINFORMATICS	2+2+0	Compulsory	6
220232409	PROFESSIONAL ENGLISH I	4+0+0	Compulsory	6

Total ECTS 30

8.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
220232402	BIOTECHNOLOGY II	4+0+0	Compulsory	6
220232404	GENOMICS	2+2+0	Compulsory	6
220232406	OLD DNA APPLICATIONS	2+2+0	Compulsory	6
220232408	SIGNAL TRANSDUCTION SYSTEMS	2+2+0	Compulsory	6
220232410	PROFESSIONAL ENGLISH II	4+0+0	Compulsory	6

Total ECTS 30