

NECMETTIN ERBAKAN UNIVERSITY FACULTY OF SCIENCE
MOLECULAR BIOLOGY AND GENETICS UNDERGRADUATE PROGRAM

1. CLASS									
COURSE KODU	1 ST SEMESTER	T+U	K	AKTS	COURSE KODU	2 ND SEMESTER	T+U	K	AKTS
0040050001	General Biology I	3+2	4	8	0040050007	General Biology II	3+2	4	8
0040050002	General Chemistry I	3+2	4	8	0040050008	General Chemistry II	3+2	4	8
0040050003	Mathematics	3+0	3	6	0040050009	Biophysics	3+0	3	6
0040050004	English I	2+0	2	2	0040050010	English II	2+0	2	2
0040050005	Turkish Language I	2+0	2	3	0040050011	Turkish Language II	2+0	2	3
0040050006	Principles Of Atatürk And History Of Turkish Revolution I	2+0	2	2	0040050012	Ataturk's Principles and History of Turkish Revolution II	2+0	2	2
OZS100	Academic Writing Course	2+0	2	2					
	Joint Elective Course I	1+0	1	1		Joint Elective Course II	1+0	1	1
Total		18+4	20	32	Total		16+4	18	30
COURSE KODU	1 ST SEMESTER-ELECTIVE COURSES	T+U	K	AKTS	COURSE KODU	2 ND SEMESTER-ELECTIVE COURSE	T+U	K	AKTS
OS101	Introduction to University Life	1+0	1	1	OS102	Social Responsibility and Healthy Living	1+0	1	1
0040050077	Academic Turkish	1+0	1	1	0040050079	Academic Turkish II	1+0	1	1
2. CLASS									
COURSE KODU	3 RD SEMESTER	T+U	K	AKTS	COURSE KODU	4 TH SEMESTER	T+U	K	AKTS
0040050013	Biochemistry I	3+0	3	5	0040050019	Biochemistry II	3+2	4	6
0040050014	Molecular Biology I	3+0	3	5	0040050020	Molecular Biology II	2+2	3	5
0040050015	Biostatistics	3+0	3	5	0040050021	Histology	2+0	2	4
0040050016	Bioanalytical	3+2	4	6	0040050022	Organic Chemistry	3+2	4	6
0040050017	Genetics I	3+2	4	6	0040050023	Genetics II	3+2	4	6
0040050018	Professional English I	2+0	2	3	0040050024	Professional English II	2+0	2	3
Total		17+4	19	30	Total		15+8	19	30
3. CLASS									
COURSE KODU	5 TH SEMESTER	T+U	K	AKTS	COURSE KODU	6 TH SEMESTER	T+U	K	AKTS
0040050025	Physiology I	3+2	4	6	0040050034	Physiology II	3+2	4	6
0040050026	Microbiology	3+2	4	6	0040050070	Molecular Biotechnology	3+0	3	4
0040050027	Recombinant DNA Technology	3+0	3	4	0040050036	Genetic Engineering	3+2	4	6
0040050078	Molecular Biology of Cancer	3+0	3	4	0040050037	Instrumental Analysis Laboratory	2+2	3	4
0040050068	Information Technologies	1+2	2	2		Elective COURSE III	2+0	2	4
	Elective COURSE I	2+0	2	4		Elective COURSE IV	2+0	2	4
	Elective COURSE II	2+0	2	4	0040050038	Internship	-	-	2
Total		17+6	20	30	Total		15+6	18	30
COURSE KODU	5 TH SEMESTER-ELECTIVE COURSES	T+U	K	AKTS	COURSE KODU	6 TH SEMESTER -SELECTIVE COURSES	T+U	K	AKTS
0040050029	Enzyme and Protein Chemistry	2+0	2	4	0040050039	Biosafety and Bioethics	2+0	2	4
0040050030	Immunology	2+0	2	4	0040050040	Cell and Tissue Culture	2+0	2	4
0040050031	Hormones	2+0	2	4	0040050072	Biomaterials	2+0	2	4
0040050032	Laboratory Quality Assurance	2+0	2	4	0040050042	Monoclonal Antibodies	2+0	2	4
0040050071	Membrane Biology	2+0	2	4	0040050043	Microbial Genetics	2+0	2	4
0040050080	Volunteering Studies	2+0	2	4					
4. CLASS									
COURSE KODU	7 TH SEMESTER	T+U	K	AKTS	COURSE KODU	8 TH SEMESTER	T+U	K	AKTS
0040050044	Proteomics and Genomics	3+0	3	5	0040050054	Bioinformatics	3+0	3	6
0040050045	Genetic Diseases and Diagnosis	3+2	4	6	0040050055	Genetic Breeding	3+0	3	6
0040050046	Molecular Biology and Genetics Practises I	3+2	4	6	0040050056	Molecular Biology & Genetics Practises II	3+2	4	6
0040050067	Entrepreneurship Culture	1+0	1	1		Elective COURSE VIII	2+0	2	4
	Elective COURSE V	2+0	2	4		Elective COURSE IX	2+0	2	4
	Elective COURSE VI	2+0	2	4		Elective COURSE X	2+0	2	4
	Elective COURSE VII	2+0	2	4					
Total		16+4	18	30	Total		15+2	16	30
COURSE KODU	7 TH SEMESTER-ELECTIVE COURSES	T+U	K	AKTS	COURSE KODU	8 TH SEMESTER ELECTIVE COURSES	T+U	K	AKTS
0040050047	Plant Stress Physiology	2+0	2	4	0040050057	Gene Control Mechanisms	2+0	2	4
0040050048	Genetically Modified Organisms	2+0	2	4	0040050058	Advanced Cell Signalling	2+0	2	4
0040050073	Transgenic Plant Technologies	2+0	2	4	0040050075	Stem Cell Biology	2+0	2	4
0040050050	Industrial Microbiology	2+0	2	4	0040050061	Virology	2+0	2	4
0040050051	Immunogenetics	2+0	2	4	0040050062	Secondary Metabolites	2+0	2	4
0040050074	Experimental Animals and Applications	2+0	2	4	0040050076	Synthetic Biology	2+0	2	4
0040050053	Pharmacology	2+0	2	4	0040050064	Embriology	2+0	2	4
General Credit Total		148			General Credit Total		242		

T: Theoric U: Application K: Credit AKTS: European Credit Transfer System