

ULUDAG UNIVERSITY															
2018-2019 ACADEMIC YEAR															
DEPARTMENT OF CHEMISTRY DOUBLE MAJOR CURRICULUM															
FACULTY/VOCATIONAL SCHOOL: FACULTY OF ARTS AND SCIENCES															
DEPARTMENT/PROGRAM: BIOLOGY															
I.TERM/FALL						II.TERM SPRING									
CODE	COURSE	T	A	L	Cred.	ECTS	CODE	COURSE	T	A	L	Cred.	ECTS		
Obligatory Courses						Obligatory Courses									
AIT101	ATATÜRK'S PRINCIPLES and REVOLUTION HISTORY I	2	0	0	2	2	AIT102	ATATÜRK'S PRINCIPLES and REVOLUTION HISTORY II	2	0	0	2	2		
TUD101	TURKISH LANGUAGE I	2	0	0	2	2	TUD102	TURKISH LANGUAGE II	2	0	0	2	2		
YAD101	FOREIGN LANGUAGE (ENGLISH)* I	2	0	0	2	2	YAD102	FOREIGN LANGUAGE (ENGLISH)* II	2	0	0	2	2		
YAD111	FOREIGN LANGUAGE (GERMAN)* I	2	0	0	2	2	YAD112	FOREIGN LANGUAGE (GERMAN)* II	2	0	0	2	2		
YAD121	FOREIGN LANGUAGE (FRENCH)* I	2	0	0	2	2	YAD122	FOREIGN LANGUAGE (FRENCH)* II	2	0	0	2	2		
BYL1001	GENERAL BIOLOGY I	2	0	0	2	4	BYL1002	GENERAL BIOLOGY II	2	0	0	2	5		
BYL1051	GENERAL BIOLOGY I LABORATORY	0	0	2	1	2	BYL1052	GENERAL BIOLOGY II LABORATORY	0	0	2	1	2		
MAT1095	MATHEMATICS	2	0	0	2	5	BYL1008	OCCUPATIONAL SAFETY	2	0	0	2	3		
KİM1031	GENERAL CHEMISTRY I	2	0	0	2	5	FZK1076	PHYSICS	2	0	0	2	5		
KİM1061	GENERAL CHEMISTRY I LABORATORY	0	0	2	1	2	FZK1078	PHYSICS LABORATORY	0	0	2	1	2		
BYL1041	COMPUTER APPLICATIONS IN BIOLOGY	2	2	0	3	6	KİM1032	GENERAL CHEMISTRY II	2	0	0	2	5		
							KİM1062	GENERAL CHEMISTRY II LABORATORY	0	0	2	1	2		
Total						17	Total						17	30	
III.TERM/FALL						IV.TERM SPRING									
CODE	COURSE	T	A	L	Cred.	ECTS	CODE	COURSE	T	A	L	Cred.	ECTS		
Obligatory Courses						Obligatory Courses									
BYL2001	CYTOLOGY	2	0	0	2	4	BYL2002	HISTOLOGY	2	0	0	2	4		
BYL2051	CYTOLOGY LABORATORY	0	0	2	1	2	BYL2052	HISTOLOGY LABORATORY	0	0	2	1	2		
BYL2003	GENERAL MICROBIOLOGY	2	0	0	2	4	BYL2004	MOLECULAR BIOLOGY	3	0	0	3	5		
BYL2053	GENERAL MICROBIOLOGY LABORATORY	0	0	2	1	2	BYL2010	ECOLOGY	3	0	0	3	5		
BYL2005	PLANT MORPHOLOGY and ANATOMY	2	0	0	2	4	BYL2012	MORPHOLOGY and TAXONOMY OF VERTEBRATES	2	0	0	2	4		
BYL2055	PLANT MORPHOLOGY and ANATOMY LABORATORY	0	0	2	1	2	BYL2062	MORPHOLOGY and TAXONOMY OF VERTEBRATES LABORATORY	0	0	2	1	2		
BYL2007	MORPHOLOGY and SYSTEMATICS OF THE INVERTEBRATE ANIMALS	2	0	0	2	4	BYL2014	VOCATIONAL FOREIGN LANGUAGE	2	0	0	2	4		
BYL2057	MORPHOLOGY and SYSTEMATICS OF THE INVERTEBRATE ANIMALS LABORATORY	0	0	2	1	2	KİM2436	ORGANIC CHEMISTRY	2	0	0	2	4		
BYL2009	ANIMAL ANATOMY	2	0	0	2	4									
BYL2059	ANIMAL ANATOMY LABORATORY	0	0	2	1	2									
Total						15	Total						16	30	
V.TERM/FALL						VI.TERM SPRING									
CODE	COURSE	T	A	L	Cred.	ECTS	CODE	COURSE	T	A	L	Cred.	ECTS		
Obligatory Courses						Obligatory Courses									
BYL3001	GENETICS I	2	0	0	2	4	BYL3002	GENETICS II	2	0	0	2	3		
BYL3051	GENETICS I LABORATORY	0	0	2	1	2	BYL3052	GENETICS II LABORATORY	0	0	2	1	2		
BYL3003	PLANT PHYSIOLOGY	2	0	0	2	4	BYL3004	ANIMAL PHYSIOLOGY	2	0	0	2	4		
BYL3053	PLANT PHYSIOLOGY LABORATORY	0	0	2	1	2	BYL3054	ANIMAL PHYSIOLOGY LABORATORY	0	0	2	1	2		
BYL3005	BIOCHEMISTRY I	2	0	0	2	4	BYL3006	BIOCHEMISTRY II	2	0	0	2	3		
BYL3055	BIOCHEMISTRY I LABORATORY	0	0	2	1	2	BYL3056	BIOCHEMISTRY II LABORATORY	0	0	2	1	2		
BYL3007	CLASSIFICATION OF NONE FLOWERING PLANTS	2	0	0	2	4	BYL3008	LIMNOLOGY	2	0	0	2	3		
BYL3057	CLASSIFICATION OF NONE FLOWERING PLANTS LABORATORY	0	0	2	1	2	BYL3058	LIMNOLOGY LABORATORY	0	0	2	1	2		
BYL3009	SCIENCE ETHICS	2	0	0	2	3	BYL3010	CLASSIFICATION OF FLOWERING PLANTS	2	0	0	2	4		
							BYL3060	CLASSIFICATION OF FLOWERING PLANTS LABORATORY	0	0	2	1	2		
ELECTIVE COURSES						ELECTIVE COURSES									
NON-FIELD COURSES						2	0	0	2	3					
Total						16	Total							17	30
VII.TERM/FALL						VIII.TERM SPRING									
CODE	COURSE	T	A	L	Cred.	ECTS	CODE	COURSE	T	A	L	Cred.	ECTS		
Obligatory Courses						Obligatory Courses									
BYL4123	FINAL PROJECT I	0	2	0	1	2	BYL4124	FINAL PROJECT II	0	2	0	1	3		
BYL4125	ENTREPRENEURSHIP in BIOLOGY	1	0	0	1	1									
ELECTIVE COURSES						ELECTIVE COURSES									
FIELD COURSES						FIELD COURSES									
ELECTIVE COURSES 1						ELECTIVE COURSES 1						4			
ELECTIVE COURSES 2						ELECTIVE COURSES 2						4			
ELECTIVE COURSES 3						ELECTIVE COURSES 3						4			
ELECTIVE COURSES 4						ELECTIVE COURSES 4						4			
ELECTIVE COURSES 5						ELECTIVE COURSES 5						4			
ELECTIVE COURSES 6						ELECTIVE COURSES 6						4			
NON-FIELD COURSES						2	0	0	2	3	TOTAL			30	
TOTAL						TOTAL								30	
ELECTIVE Courses						ELECTIVE Courses									
BYL4013	HUMAN BIOLOGY	2	0	0	2	4	BYL4002	EVOLUTION	2	0	0	2	4		
BYL4015	ETOLOGY	2	0	0	2	4	BYL4004	DEVELOPMENTAL BIOLOGY	2	0	0	2	4		
BYL4019	CELL PHYSIOLOGY	2	0	0	2	4	BYL4010	PLANT BIOTECHNOLOGY	2	0	0	2	4		
BYL4021	ECONOMICAL BOTANY	2	0	0	2	4	BYL4012	PLANT EMBRIOLOGY	2	0	0	2	4		
BYL4033	ICHTYOLOGY	1	0	2	2	4	BYL4014	GENETIC ENGINEERING	2	0	0	2	4		
BYL4035	MARINE BIOLOGY	2	0	0	2	4	BYL4018	PLANT METOBOLITES	2	0	0	2	4		
BYL4037	ORNITOLOGY	2	0	0	2	4	BYL4020	ENDOCRINOLOGY	2	0	0	2	4		
BYL4039	ENVIRONMENTAL BIOLOGY	2	0	0	2	4	BYL4022	HUMAN GENETICS	2	0	0	2	4		
BYL4045	ENVIRONMENTAL MICROBIOLOGY	2	0	0	2	4	BYL4024	VEGETATION	1	2	0	2	4		
BYL4059	PLANT DEVELOPMENT PHYSIOLOGY	1	0	2	2	4	BYL4026	CONSERVATION NATURE and BIOLOGY	2	0	0	2	4		
BYL4061	PREPARATION TECHNIQUES	1	0	2	2	4	BYL4028	PLANT GEOGRAPHY	2	0	0	2	4		
BYL4063	CYTOGENETICS	1	0	2	2	4	BYL4032	PLANT ECOLOGY	2	0	0	2	4		
BYL4065	PARASITOLOGY	1	0	2	2	4	BYL4034	ANIMAL ECOLOGY	2	0	0	2	4		
BYL4071	HERPETOLOGY	2	0	0	2	4	BYL4038	WILD LIFE, ANIMAL DIVERSITY	2	0	0	2	4		
BYL4083	SOIL - PLANT INTERACTIONS	1	0	2	2	4	BYL4040	HERBARIUM TECHNIQUES	2	0	0	2	4		
BYL4085	PALYNOLGY	2	0	0	2	4	BYL4046	ENTOMOLOGY	2	0	0	2	4		
BYL4087	ENZYME TECHNOLOGY	2	0	0	2	4	BYL4050	APPLIED BIOCHEMISTRY	2	0	0	2	4		
BYL4089	BACTERIAL PHYSIOLOGY	2	0	0	2	4	BYL4052	BIOLOGY OF ALGAE	2	0	2	2	4		
BYL4097	FORENSIC GENETICS	2	0	0	2	4	BYL4054	BIOCLIMATE	2	0	0	2	4		
BYL4099	RADIOBIOLOGY	2	0	0	2	4	BYL4060	PLANT DISEASES	2	0	0	2	4		
BYL4101	COMPUTATIONAL MOLECULAR BIOLOGY	1	2	0	2	4	BYL4088	INDUSTRIAL MICROBIOLOGY	1	2	0	2	4		
BYL4103	FREE RADICALS and ANTIOXIDANT BIOLOGY	2	0	0	2	4	BYL4090	GENERAL CELL BIOLOGY	2	0	0	2	4		
BYL4105	DATA ANALYSIS in BIOLOGICAL RESEARCHERS	1	2	0	2	4	BYL4100	INTRODUCTION to BIOINFORMATICS	2	0	0	2	4		
BYL4109	FOOD MICROBIOLOGY	2	0	0	2	4	BYL4102	STRESS PHYSIOLOGY OF PLANTS	2	0	0	2	4		
BYL4111	FRESHWATER ECOLOGY	2	0	0	2	4	BYL4104	APPLIED GENETICS	2	0	0	2	4		
BYL4113	NANOTECHNOLOGY in BIOLOGY	2	0	0	2	4	BYL4110	MYCOLOGY	2	0	0	2	4		
BYL4115	SYSTEMIC HISTOLOGY	2	0	0	2	4	BYL4112	FRESHWATER BENTHIC MACROINVERTEBRATES and THEIR ECOLOGY	2	0	0	2	4		
BYL4117	PLANCETOLOGY	2	0	0	2	4	BYL4114	AEROBIOLOGY	1	0	2	2	4		
BYL4119	CANCER CELL BIOCHEMISTRY	2	0	0	2	4	BYL4116	DENDROLOGY	2	0	0	2	4		
BYL4121	PLANT PROTECTION BIOLOGY	2	0	0	2	4	BYL4118	LICHEN BIOLOGY	2	0	0	2	4		
							BYL4120	WATER POLLUTION and ENVIRONMENTAL EFFECTS	2	0	0	2	4		
							BYL4122	BIOTECHNOLOGY	2	0	0	2	4		
							BYL4126	STANDARD FIRST AID TRAINING	1	2	0	2	4		

EXEMPT COURSES						
CODE	OBLIGATORY COURSES	T	A	L	Cred.	ECTS
AIT101	ATATÜRK'S PRINCIPLES and REVOLUTION HISTORY I	2	0	0	2	2
TUD101	TURKISH LANGUAGE I	2	0	0	2	2
YAD101	FOREIGN LANGUAGE (ENGLISH)* I	2	0	0	2	2
AIT102	AIT102 ATATÜRK'S PRINCIPLES and REVOLUTION HISTORY II	2	0	0	2	2
TUD102	TURKISH LANGUAGE II	2	0	0	2	2
YAD102	FOREIGN LANGUAGE (ENGLISH)* II	2	0	0	2	2
MAT1095	MATHEMATICS	2	0	0	2	5
KİM1031	GENERAL CHEMISTRY I	2	0	0	2	5
KİM1061	GENERAL CHEMISTRY I LABORATORY	0	0	2	1	2
BYL1041	COMPUTER APPLICATIONS IN BIOLOGY	2	2	0	3	6
BYL1008	OCCUPATIONAL SAFETY	2	0	0	2	3
FZK1076	PHYSICS	2	0	0	2	5
FZK1078	PHYSICS LABORATORY	0	0	2	1	2
KİM1032	GENERAL CHEMISTRY II	2	0	0	2	5
KİM1062	GENERAL CHEMISTRY II LABORATORY	0	0	2	1	2
BYL2014	VOCATIONAL FOREIGN LANGUAGE	2	0	0	2	4
BYL4125	ENTREPRENEURSHIP in BIOLOGY	1	0	0	1	1
ELECTIVE COURSES		TOTAL				52
NON-FIELD COURSES		2	0	0	2	3
NON-FIELD COURSES		2	0	0	2	3
NON-FIELD COURSES		2	0	0	2	3
NON-FIELD COURSES		2	0	0	2	3
		TOTAL				12
		GENERAL TOTAL				64