

ULUDAG UNIVERSITY																			
2018-2019 ACADEMIC YEAR																			
DEPARTMENT OF PHYSIC DOUBLE MAJOR CURRICULUM																			
FACULTY/VOCATIONAL SCHOOL: FACULTY OF ARTS AND SCIENCES																			
DEPARTMENT/PROGRAM: BIOLOGY																			
II-TERM/FALL						III-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				3	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
KIM1031	GENERAL CHEMISTRY I				2	0	0	2	5	EZK1076	PHYSICS				2	0	0	2	5
KIM1061	GENERAL CHEMISTRY I LABORATORY				0	0	2	1	2	EZK1078	PHYSICS LABORATORY				0	0	2	1	2
BYL1041	COMPUTER APPLICATIONS IN BIOLOGY				2	2	0	3	6	KIM1032	GENERAL CHEMISTRY II				2	0	0	2	5
										KIM1062	GENERAL CHEMISTRY II LABORATORY				0	0	2	1	2
<b>Total</b>						<b>17</b>			<b>30</b>	<b>Total</b>						<b>17</b>			<b>30</b>
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	KIM2436	ORGANIC CHEMISTRY				2	0	0	2	4
BYL2009	ANIMAL ANATOMY				2	0	0	2	4										
BYL2059	ANIMAL ANATOMY LABORATORY				0	0	2	1	2										
<b>Total</b>						<b>15</b>			<b>30</b>	<b>Total</b>						<b>16</b>			<b>30</b>
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
	<b>ELECTIVE COURSES</b>										<b>ELECTIVE COURSES</b>								
	NON-FIELD COURSES				2	0	0	2	3		NON-FIELD COURSES				2	0	0	2	3
<b>Total</b>						<b>16</b>			<b>30</b>	<b>Total</b>						<b>17</b>			<b>30</b>
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										
	<b>ELECTIVE COURSES</b>										<b>ELECTIVE COURSES</b>								
	<b>FIELD COURSES</b>										<b>FIELD COURSES</b>								
	ELECTIVE COURSES 1								4		ELECTIVE COURSES 1								4
	ELECTIVE COURSES 2								4		ELECTIVE COURSES 2								4
	ELECTIVE COURSES 3								4		ELECTIVE COURSES 3								4
	ELECTIVE COURSES 4								4		ELECTIVE COURSES 4								4
	ELECTIVE COURSES 5								4		ELECTIVE COURSES 5								4
	ELECTIVE COURSES 6								4		ELECTIVE COURSES 6								4
	<b>NON-FIELD COURSES</b>				2	0	0	2	3		<b>NON-FIELD COURSES</b>				2	0	0	2	3
<b>TOTAL</b>						<b>16</b>			<b>30</b>	<b>TOTAL</b>						<b>17</b>			<b>30</b>
	<b>Elective Courses</b>										<b>Elective Courses</b>								
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	ICHTHYOLOGY				1	0	2	2	4	BYL4014	GENETIC ENGINEERING				2	0	0	2	4
BYL4035	MARINE BIOLOGY				2	0	0	2	4	BYL4018	PLANT METABOLITES				2	0	0	2	4
BYL4037	ORNITHOLOGY				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	PALYNOLOGY				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	BIOCIMATE				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	PLANCTOLOGY				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	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
BYL1041	COMPUTER APPLICATIONS IN BIOLOGY	2	2	0	3	6
BYL1008	OCCUPATIONAL SAFETY	2	0	0	2	3
EZK1076	PHYSICS	2	0	0	2	5
EZK1078	PHYSICS LABORATORY	0	0	2	1	2
	<b>ELECTIVE COURSES</b>					<b>33</b>
BYL4105	DATA ANALYSIS IN BIOLOGICAL RESEARCHERS	1	2	0	2	4
	<b>TOTAL</b>					<b>4</b>
	NON-FIELD COURSES	2	0	0	2	3