



**ULUDAĞ ÜNİVERSİTESİ**  
FEN BİLİMLERİ ENSTİTÜSÜ  
2015-2016 EĞİTİM ÖĞRETİM YILI DERS PLANLARI

<b>ANABİLİM DALI</b>	MOLEKÜLER BİYOLOJİ VE GENETİK
<b>BİLİM DALI / PROGRAMI</b>	YÜKSEK LİSANS PROGRAMI

	I. YARIYIL / GÜZ								II. YARIYIL / BAHAR									
	Kodu	Dersin Adı	Türü	T	U	L	Kredi	AKTS	Kodu	Dersin Adı	Türü	T	U	L	Kredi	AKTS		
<b>DERS AŞAMASI</b>	MBG5191	YL TEZ DANIŞMANLIĞI I	Z	0	1	0	0	1	MBG5192	YL TEZ DANIŞMANLIĞI II	Z	0	1	0	0	1		
	MBG5401	MOLEKÜLER BİYOLOJİ YÖNTEMLERİ	Z	3	0	0	3	6	MBG5172	SEMİNER (DERS AŞAMASI)	Z	0	2	0	0	5		
	MBG5181	YÜKSEK LİSANS UZMANLIK ALAN DERSİ I	S	4	0	0	0	5	MBG5182	YÜKSEK LİSANS UZMANLIK ALAN DERSİ II	S	4	0	0	0	5		
	MBG5403	HÜCRE MOLEKÜLER BİYOLOJİSİ	S	3	0	0	3	6	MBG5400	GEN MOLEKÜLER BİYOLOJİSİ	S	3	0	0	3	7		
	MBG5405	BİTKİ MOLEKÜLER BİYOLOJİSİ	S	3	0	0	3	6	MBG5402	MAYA GENETİĞİ ve MOLEKÜLER BİYOLOJİSİ	S	3	0	0	3	7		
	MBG5407	İNSAN MOLEKÜLER GENETİĞİ	S	3	0	0	3	6	MBG5404	EPİGENETİK	S	3	0	0	3	7		
	MBG5409	MİKROBİYAL FİZYOLOJİ	S	3	0	0	3	6	MBG5406	HAYVAN HÜCRE KÜLTÜRLERİ	S	3	0	0	3	6		
	MBG5411	BİTKİ BİYOTEKNOLOJİSİ	S	3	0	0	3	6	MBG5408	BİTKİ GELİŞİMİNİN MOLEKÜLER GENETİĞİ	S	3	0	0	3	7		
	MBG5413	BAKTERİ GENETİĞİ	S	3	0	0	3	6	MBG5410	NÜKLEİK ASİT BİYOKİMYASI ve METABOLİZMASI	S	3	0	0	3	6		
	MBG5415	PROTEİN ve ENZİM BİYOKİMYASI	S	3	0	0	3	6	MBG5412	MOLEKÜLER ENDOKRİNOLOJİ	S	3	0	0	3	6		
	MBG5417	BİTKİ DOKU KÜLTÜRLERİ	S	3	0	0	3	6	MBG5414	BİTKİ MOLEKÜLER BİYOLOJİSİ UYGULAMALARI	S	3	0	0	3	6		
	MBG5419	BİTKİ BİYOKİMYASI	S	3	0	0	3	6	MBG5416	BİTKİ MOLEKÜLER GENETİĞİ	S	3	0	0	3	6		
	MBG5421	BİTKİLERDE FİLOGENETİK ANALİZ	S	3	0	0	3	6	MBG5418	BİTKİLERDE GENETİK HARİTALAMA	S	3	0	0	3	6		
	MBG5423	GENETİK ANALİZ METODLARI	S	3	0	0	3	6	MBG5420	BİTKİ GENETİK MÜHENDİSLİĞİ	S	3	0	0	3	7		
	MBG5425	İŞLEVSEL GENOMİK	S	3	0	0	3	6	MBG5422	GEN TRANSFER METODLARI ve VEKTÖRLER	S	3	0	0	3	6		
	MBG5427	MİKROBİYAL BİYOTEKNOLOJİ	S	3	0	0	3	6	MBG5424	PROTEOMİK	S	3	0	0	3	6		
	MBG5429	İNSAN GENETİĞİNDE GÜNCEL YÖNTEMLER	S	3	0	0	3	6	MBG5426	MENDELİAN ve KOMPLEKS KALITIM GÖSTEREN HASTALIKLARIN GENETİĞİ	S	3	0	0	3	6		
		<b>Toplam Kredi</b>							<b>12</b>	<b>30</b>	<b>Toplam Kredi</b>							<b>9</b>
<b>TEZ AŞAMASI</b>	III. YARIYIL / GÜZ								IV. YARIYIL / BAHAR									
	MBG5173	SEMİNER (TEZ AŞAMASI)	Z	0	2	0	0	5	MBG5184	YL UZMANLIK ALAN DERSİ IV	Z	4	0	0	0	5		
	MBG5183	YÜKSEK LİSANS UZMANLIK ALAN DERSİ III	Z	4	0	0	0	5	MBG5194	YL TEZ DANIŞMANLIĞI IV	Z	0	1	0	0	25		
	MBG5193	YL TEZ DANIŞMANLIĞI III	Z	0	1	0	0	20										
	<b>Toplam Kredi</b>							<b>0</b>	<b>30</b>	<b>Toplam Kredi</b>							<b>0</b>	<b>30</b>
<b>TOPLAM KREDİ: 21 - TOPLAM AKTS: 120</b>																		

**Not:** Öğrenci, seçmeli derslerden her yarıyıl toplam ...12... kredilik .....4... ders seçecektir.  
Öğrenci isterse, danışmanının onayı ile her yarıyıl için **1 (bir)** seçmeli dersini alan dışından da alabilir.



**ULUDAĞ UNIVERSITY**  
**INSTITUTE OF NATURAL SCIENCES**  
**2015-2016.ACADEMIC YEAR COURSE PLAN**

<b>DEPARTMENT OF</b>	MOLECULAR BIOLOGY AND GENETICS
<b>DEPARTMENT / PROGRAM</b>	Master's Degree Program

COURSE STAGE	I. TERM / FALL								II. TERM / SPRING									
	Code	Course Title	Type	T	A	L	Credit	ECTS	Code	Course Title	Type	T	A	L	Credit	ECTS		
	MBG5191	MSc THESIS CONSULTING I	M	0	1	0	0	1	MBG5192	MSc THESIS CONSULTING II	M	0	1	0	0	1		
	MBG5401	METHODS IN MOLECULAR BIOLOGY	M	3	0	0	3	6	MBG5172	PRE-THESIS SEMINAR	M	0	2	0	0	5		
	MBG5181	ADVANCED TOPICS IN MSC THESIS I	E	4	0	0	0	5	MBG5182	ADVANCED TOPICS IN MSC THESIS II	E	4	0	0	0	5		
	MBG5403	MOLECULAR BIOLOGY OF THE CELL	E	3	0	0	3	6	MBG5400	MOLECULAR BIOLOGY OF THE GENE	E	3	0	0	3	7		
	MBG5405	PLANT MOLECULAR BIOLOGY	E	3	0	0	3	6	MBG5402	YEAST GENETICS AND MOLECULAR BIOLOGY	E	3	0	0	3	7		
	MBG5407	HUMAN MOLECULAR GENETICS	E	3	0	0	3	6	MBG5404	EPIGENETICS	E	3	0	0	3	7		
	MBG5409	MICROBIAL PHYSIOLOGY	E	3	0	0	3	6	MBG5406	ANIMAL CELL CULTURES	E	3	0	0	3	6		
	MBG5411	PLANT BIOTECHNOLOGY	E	3	0	0	3	6	MBG5408	MOLECULAR GENETICS OF PLANT DEVELOPMENT	E	3	0	0	3	7		
	MBG5413	BACTERIAL GENETICS	E	3	0	0	3	6	MBG5410	NUCLEIC ACIDS BIOCHEMISTRY AND METABOLISM	E	3	0	0	3	6		
	MBG5415	PROTEIN AND ENZYME BIOCHEMISTRY	E	3	0	0	3	6	MBG5412	MOLECULAR ENDOCRINOLOGY	E	3	0	0	3	6		
	MBG5417	PLANT TISSUE CULTURES	E	3	0	0	3	6	MBG5414	APPLICATIONS OF PLANT MOLECULAR BIOLOGY	E	3	0	0	3	6		
	MBG5419	PLANT BIOCHEMISTRY	E	3	0	0	3	6	MBG5416	PLANT MOLECULAR GENETICS	E	3	0	0	3	6		
	MBG5421	PLANT PHYLOGENETICS	E	3	0	0	3	6	MBG5418	GENETIC MAPPING IN PLANTS	E	3	0	0	3	6		
	MBG5423	METHODS IN GENETIC ANALYSIS	E	3	0	0	3	6	MBG5420	PLANT GENETIC ENGINEERING	E	3	0	0	3	7		
	MBG5425	FUNCTIONAL GENOMICS	E	3	0	0	3	6	MBG5422	GENE TRANSFER METHODS AND VECTORS	E	3	0	0	3	6		
	MBG5427	MICROBIAL BIOTECHNOLOGY	E	3	0	0	3	6	MBG5424	PROTEOMICS	E	3	0	0	3	6		
	MBG5429	CONTEMPORARY METHODS IN HUMAN GENETICS	E	3	0	0	3	6	MBG5426	GENETICS OF MENDELIAN AND NON-MENDELIAN DISEASES	E	3	0	0	3	6		
	<b>Total Credits</b>							<b>12</b>	<b>30</b>	<b>Total Credits</b>							<b>9</b>	<b>30</b>
STAGE THESIS	III. TERM / FALL								IV. TERM / SPRING									
	Code	Course Title	Type	T	A	L	Credit	ECTS	Code	Course Title	Type	T	A	L	Credit	ECTS		
	MBG5173	THESIS SEMINAR (THESIS)	M	0	2	0	0	5	MBG5184	ADVANCED TOPICS IN MSC THESIS IV	M	4	0	0	0	5		
	MBG5183	ADVANCED TOPICS IN MSC THESIS III	M	4	0	0	0	5	MBG5194	MSc THESIS RESEARCH IV	M	0	1	0	0	25		
	MBG5193	MSc THESIS RESEARCH III	M	0	1	0	0	20										
	<b>Total Credits</b>							<b>0</b>	<b>30</b>	<b>Total Credits</b>							<b>0</b>	<b>30</b>
<b>TOTAL CREDITS: 21 - TOTAL ECTS: 120</b>																		

**Not:** The student is expected to take a total of ...12... credited, ...4... selective courses every academic term.

The student has the option of choosing one selective course from another department with the endorsement of the supervisor.

**M:** mandatory course, **E:** elective course







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**FEN BİLİMLERİ ENSTİTÜSÜ**  
 ..2015.-.2016...EĞİTİM ÖĞRETİM YILI ÖNERİLEN DERSLERİN ULUSAL/ULUSLARARASI KARŞILIKLARI

**ANABİLİM DALI** MOLEKÜLER BİYOLOJİ VE GENETİK

**BİLİM DALI / PROGRAMI** Yüksek Lisans

Kodu	Dersin Adı	Yarıyıl	Türü	T	U	L	Kredi	AKTS	Dersin İçeriği	Örnek Üniversiteler		
										Örnek 1	Örnek 2	Örnek 3