

MBG Undergraduate Curriculum 2018

FIRST YEAR				
First Semester	Credit	Prereq/Coreq	ECTS	
MBG 101 Biology I	(3+0)3		5	
MBG 111 Biology Lab I	(0+4)2	Coreq MBG 101	2	
CHEM 101 General Chemistry I	(4+0)4		5	
CHEM 131 General Chemistry Lab I	(0+4)2	Coreq CHEM 101	2	
PHYS 101 General Physics I	(2+2)3		6	
PHYS 111 General Physics Lab I	(0+2)1	Coreq PHYS 101	2	
MATH 141 Basic Calculus I	(3+2)4		5	
ENG 101 Development of Reading and Writing Skills I	(3+0)3		3	
Total credits: 22		Total ECTS: 22		
Second Semester	Credit	Prereq / Coreq	ECTS	
MBG 102 Biology II	(3+0)3		6	
CHEM 102 General Chemistry II	(4+0)4		5	
CHEM 132 General Chemistry Lab II	(0+4)2	Coreq CHEM 102	2	
PHYS 102 General Physics II	(2+2)3		6	
PHYS 112 General Physics Lab II	(0+2)1	Coreq PHYS 102	2	
MATH 142 Basic Calculus II	(3+2)4		6	
ENG 102 Development of Reading and Writing Skills II	(3+0)3		3	
Total credits: 20		Total ECTS: 30		
SECOND YEAR				
Third Semester	Credit	Prereq/Coreq	ECTS	
MBG 201 Cell Biology	(3+0)3		3	
MBG 211 Cell Biology Lab	(0+4)2	Coreq MBG 201	4	
MBG 203 Genetics	(3+0)3		3	
MBG 213 Genetics Lab	(0+4)2	Coreq MBG 203	4	
CHEM 203 Organic Chemistry I	(3+2)4	Prereq CHEM 101, 102	5	
MBG 205 Biostatistics	(2+2)3		4	
TURK 201 Turkish Language I	(2+0)NC		2	
HIST 201 Principles of Atatürk I	(2+0)NC		2	
Non-technical Elective	(3+0)3		3	
Total credits:20		Total ECTS: 30		
Fourth Semester	Credit	Prereq/Coreq	ECTS	
MBG 202 Molecular Biology	(3+0)3		5	
MBG 212 Molecular Biology Lab	(0+4)2	Coreq MBG 202	4	
MBG 204 Microbiology	(3+0)3		5	
MBG 214 Microbiology Lab	(0+4)2	Coreq MBG 204	4	
CHEM 204 Organic Chemistry II	(3+2)4	Prereq CHEM 203	5	
TURK 202 Turkish Language II	(2+0)NC		2	
HIST 202 Principles of Atatürk II	(2+0)NC		2	
Non-Technical Elective	(3+0)3		3	

Total credits: 17		Total ECTS: 30	
THIRD YEAR			
Fifth Semester	Credit	Prereq/Coreq	ECTS
MBG 301 Biochemistry I	(3+0)3		5
MBG 311 Biochemistry Lab	(0+4)2	Coreq MBG 301	7
MBG 303 Molecular Genetics of Prokaryotes	(3+0)3		5
MBG 305 Applied Bioinformatics	(2+2)3		5
Technical Elective	(3+0)3		4
Technical Elective	(3+0)3		4
	Total credits 17		Total ECTS: 30
Sixth Semester	Credit	Prereq/Coreq	ECTS
MBG 302 Biochemistry II	(3+0)3		9
MBG 304 Molecular Genetics of Eukaryotes	(3+0)3		9
Technical Elective	(3+0)3		4
Technical Elective	(3+0)3		4
Technical Elective	(3+0)3		4
	Total credits 15		Total ECTS: 30
FOURTH YEAR			
Seventh Semester	Credit	Prereq/Coreq	ECTS
MBG 403 Developmental Biology	(3+0)3		5
MBG 407 Signal Transduction	(3+0)3		7
Technical Elective	(3+0)3		4
Technical Elective	(3+0)3		4
MBG 390 Summer Practice	6 weeks		10
	Total credits 12		Total ECTS: 30
Eighth Semester	Credit	Prereq/Coreq	ECTS
MBG 402 Seminars in Molecular Biology and Genetics	(0+2)1		10
MBG 408 Bioethics	(2+0)2		8
Technical Elective	(3+0)3		4
Technical Elective	(3+0)3		4
Technical Elective	(3+0)3		4
	Total credits: 12		Total ECTS: 30
	Total 135 credits		Total ECTS: 240