

IZMIR INSTITUTE OF TECHNOLOGY
FACULTY OF SCIENCE
DEPARTMENT OF MOLECULAR BIOLOGY AND GENETICS
2019 UNDERGRADUATE PROGRAM

First Semester				PRCD/CRC	CD	ECTS
MBG	101	Biology I	(3+0)3			5
MBG	111	Biology Lab I	(0+4)2	CRC	CD: MBG 101	2
CHEM	101	General Chemistry I	(4+0)4			5
CHEM	131	General Chemistry Lab I	(0+4)2	CRC	CD: CHEM 101	2
PHYS	101	General Physics I	(2+2)3			6
PHYS	111	General Physics Lab I	(0+2)1	CRC	CD: 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
22 Credits						30

Second Semester				PRCD/CRC	CD	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	CRC	CD: CHEM 102	2
PHYS	102	General Physics II	(2+2)3			6
PHYS	112	General Physics Lab II	(0+2)1	CRC	CD: 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
20 Credits						30

Third Semester				PRCD/CRC	CD	ECTS
MBG	201	Cell Biology	(3+0)3			3
MBG	211	Cell Biology Lab	(0+4)2	CRC	CD: MBG 201	4
MBG	203	Genetics	(3+0)3			3
MBG	213	Genetics Lab	(0+4)2	CRC	CD: MBG 203	4
CHEM	221	Organic Chemistry	(4+0)4	PR	CD: CHEM 101,102	5
MBG	205	Biostatistics	(2+2)3			4
HIST	201	Principles of Atatürk I	(2+0) NC			2
TURK	201	Turkish Language I	(2+0) NC			2
Non-technical Elective			(3+0)3			3
20 Credits						30

Fourth Semester				PRCD/CRC	CD	ECTS
MBG	202	Molecular Biology	(4+0)4			6
MBG	212	Molecular Biology Lab	(0+6)3	CRC	CD: MBG 202	5
MBG	204	Microbiology	(4+0)4			7
MBG	214	Microbiology Lab	(0+6)3	CRC	CD: MBG 204	5
HIST	202	Principles of Atatürk II	(2+0) NC			2
TURK	202	Turkish Language II	(2+0) NC			2
Non-technical Elective			(3+0)3			3
17 Credits						30

Fifth Semester				PRCD/CRCDD	ECTS
MBG	301	Biochemistry I	(3+0)3		5
MBG	311	Biochemistry Lab	(0+4)2	CRCDD: 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
				17 Credits	30

Sixth Semester				PRCD/CRCDD	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
				15 Credits	30

Seventh Semester				PRCD/CRCDD	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
				12 Credits	30

Eight Semester				PRCD/CRCDD	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
				12 Credits	30

				TOTAL	135 CREDITS	240
--	--	--	--	--------------	--------------------	------------