

İZMİR INSTITUTE OF TECHNOLOGY
FACULTY OF SCIENCE
DEPARTMENT OF MOLECULAR BIOLOGY AND GENETICS
2022 UNDERGRADUATE PROGRAM

First Semester				PRCD/CRC	CD	ECTS
MBG	101	Biology I	(4+0)4			7
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 Laboratory I	(0+4)2	CRC	CD: CHEM 101	2
PHYS	101	General Physics I	(2+2)3			6
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	(4+0)4			6
CHEM	102	General Chemistry II	(4+0)4			5
CHEM	132	General Chemistry Laboratory II	(0+4)2	CRC	CD: CHEM 102	2
PHYS	102	General Physics II	(2+2)3			6
MATH	142	Basic Calculus II	(3+2)4			6
ENG	102	Development of Reading and Writing Skills II	(3+0)3			3
GCC	101	Career Planning and Development	(2+0) NC			2
20 Credits						30

Third Semester				PRCD/CRC	CD	ECTS
MBG	201	Cell Biology I	(3+0)3			5
MBG	211	Cell Biology Lab	(0+4)2	CRC	CD: MBG 201	4
MBG	203	Genetics	(4+0)4			5
MBG	213	Genetics Lab	(0+4)2	CRC	CD: MBG 203	4
CHEM	221	Organic Chemistry	(4+0)4	PRCD:	CHEM 101,102	5
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
18 Credits						30

Fourth Semester				PRCD/CRC	CD	ECTS
MBG	202	Molecular Biology	(4+0)4			8
MBG	212	Molecular Biology Lab	(0+4)2	CRC	CD: MBG 202	5
MBG	206	Cell Biology II	(3+0)3			5
MBG	205	Biostatistics	(2+2)3			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
15 Credits						30

Fifth Semester				PRCD/CRCO	ECTS
MBG	301	Biochemistry I	(3+0)3		7
MBG	311	Biochemistry Lab	(0+4)2	CRCO: MBG 301	5
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/CRCO	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/CRCO	ECTS
MBG	411	Scientific Career Development	(2+0)2		5
Technical Elective			(3+0)3		4
Technical Elective			(3+0)3		4
Technical Elective			(3+0)3		4
Technical Elective			(3+0)3		4
MBG	390	Summer Practice	6 weeks		9
				14 Credits	30

Eighth Semester				PRCD/CRCO	ECTS
MBG	402	Seminars in Molecular Biology and Genetics	(2+0)2		9
MBG	408	Bioethics	(2+0)2		9
Technical Elective			(3+0)3		4
Technical Elective			(3+0)3		4
Technical Elective			(3+0)3		4
				13 Credits	30

				TOTAL	134 CREDITS	240
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