

 OKAN UNIVERSITY	FACULTY OF ENGINEERING AND NATURAL SCIENCES DEPARTMENT OF GENETICS AND BIOENGINEERING GENETICS AND BIOENGINEERING PROGRAMME (IN ENGLISH) 2026-2027 FALL SEMESTER UNDERGRADUATE CURRICULUM	Document Code: FR.OGR.200
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Semester 1						
Code	Course Title	T	A	C	ECTS	Status
MATH113	Mathematics I	3	2	4	6	Compulsory
PHYS113	Physics I	2	2	3	5	Compulsory
ATA111	Atatürk Principles and The History of Turkish Revolution I	2	0	2	2	Compulsory
TRD111	Turkish Language I	2	0	2	2	Compulsory
GBE101	Introduction To Genetic And Bioengineering	2	0	2	6	Compulsory
CHM103	Chemistry	2	2	3	5	Compulsory
	Elective Foreign Language	2	2	3	4	Elective
Total Credit		19			30	

Semester 3						
Code	Course Title	T	A	C	ECTS	Status
GBE207	Molecular Cell Biology	3	0	3	5	Compulsory
GBE205	Microbiology	2	2	3	3	Compulsory
MATH265	Probability and Statistics I	3	0	3	5	Compulsory
MATH215	Mathematics III	2	2	3	6	Compulsory
	Elective Foreign Language	2	2	3	4	Elective
GBE208	Analytical Chemistry	3	0	3	5	Compulsory
Total Credit		18			30	

Semester 5						
Code	Course Title	T	A	C	ECTS	Status
GBE301	Cell and Tissue Engineering	2	4	4	8	Compulsory
GBE313	Physiology	3	0	3	6	Compulsory
GBE315	Bioinformatics	2	2	3	6	Compulsory
GBE323	Biochemistry I	2	2	3	5	Compulsory
	Faculty Elective Course	3	0	3	5	Elective
Total Credit		16			30	

Semester 7						
Code	Course Title	T	A	C	ECTS	Status
GBE425	Industrial Genetics and Bioengineering II	1	4	3	5	Compulsory
GBE411	Biomedical Engineering	3	0	3	7	Compulsory
GBE497	Genetics and Bioengineering Design	0	2	1	4	Compulsory
BBA222	Entrepreneurship Applications	2	0	2	3	Compulsory
	Departmental Elective Course	3	0	3	7	Elective
	University Elective Course	3	0	3	4	Elective
Total Credit		15			30	

Semester 2						
Code	Course Title	T	A	C	ECTS	Status
MATH114	Mathematics II	3	2	4	6	Compulsory
PHYS114	Physics II	2	2	3	5	Compulsory
ATA112	Atatürk Principles and The History of Turkish Revolution II	2	0	2	2	Compulsory
TRD112	Turkish Language II	2	0	2	2	Compulsory
GBE104	General Biology	3	0	3	8	Compulsory
	Elective Foreign Language	2	2	3	4	Elective
CLP001	Carrer and Life	0	2	1	3	Compulsory
Total Credit		18			30	

Semester 4						
Code	Course Title	T	A	C	ECTS	Status
CMPE152	Computer Programming	2	2	3	5	Compulsory
GBE216	Biomaterials	3	0	3	3	Compulsory
GBE202	Bioengineering Laboratory	0	4	2	4	Compulsory
MATH266	Probability and Statistics II	3	0	3	5	Compulsory
MATH216	Mathematics IV	2	2	3	6	Compulsory
GBE222	Biotransport	3	0	3	3	Compulsory
GBE210	Organic Chemistry	3	0	3	5	Compulsory
Total Credit		20			31	

Semester 6						
Code	Course Title	T	A	C	ECTS	Status
GBE302	Genetic Engineering	2	4	4	8	Compulsory
GBE324	Biochemistry II	3	0	3	5	Compulsory
GBE306	Quality and Security Management	1	0	1	2	Compulsory
GBE326	Industrial Genetics and Bioengineering I	1	4	3	7	Compulsory
GBE395	Seminar	1	2	2	4	Compulsory
IE367	Occupational Health and Safety	3	0	3	5	Compulsory
Total Credit		16			31	

Semester 8						
Code	Course Title	T	A	C	ECTS	Status
GBE498	Genetics and Bioengineering Graduation Project	0	4	2	4	Compulsory
INT001	Internship I	0	0	0	4	Compulsory
	Departmental Elective Course	3	0	3	7	Elective
	Departmental Elective Course	3	0	3	7	Elective
	Departmental Elective Course	3	0	3	7	Elective
Total Credit		11			29	

TOTAL CREDIT	133
TOTAL ECTS	241

Abbreviations: T=Weekly hours: theoretical; A=Weekly hours: application; C=Credits in Turkish System; ECTS= European Credit Transfer System

Semester 1

Semester 2

Semester 3

Semester 4

Semester 5

Semester 6

Semester 7

Semester 8[illegible]