

Mühendislik Fakültesi

Biyomühendislik (İngilizce) - Dönemlik

Lisans - 2023 - Biyomühendislik - Lisans

Genel Toplam

Ders Adedi :53

T : 129

U : 34

Kredi : 260

ECTS : 260

T+U : 163

**YABANCI DİL HAZIRLIK**

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	YDIO01	Yabancı Dil Yeterlik (İngilizce)	0	0	0	0

**1. YARIYIL**

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BIOE1200	Introduction to Bioengineering	3	0	5	5
2	CHEM1007	Basic Chemistry	4	0	6	6
3	ENG-UE	University Elective (Ders 1) <small>[Bu ders ENG-UE ders grubundan alınacaktır, aşağıya bakınız]</small>	2	0	3	3
4	ISG121	İş Sağlığı ve Güvenliği I	2	0	2	2
5	MATH1001	Calculus I	4	0	6	6
6	PHYS1101	Physics I	3	0	4	4
7	PHYS1103	Physics Lab I	0	2	2	2
8	TRD121	Türk Dili I	2	0	2	2
Toplam			20	2	30,00	30,00

**2. YARIYIL**

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BIOE1202	Biomedical Engineering Fundamentals	3	0	5	5
2	BIOE1211	General Biology for Engineers	3	2	6	6
3	CSE1221	Scientific Programming	3	2	5	5
4	ISG122	İş Sağlığı ve Güvenliği II	2	0	2	2
5	MATH1002	Calculus II	4	0	6	6
6	PHYS1102	Physics II	3	0	4	4
7	TRD122	Türk Dili II	2	0	2	2
Toplam			20	4	30,00	30,00

**3. YARIYIL**

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	ATA121	Atatürk İlkeleri ve İnkılap Tarihi I	2	0	2	2
2	BIO_NTE-1	Non-technical Elective (Ders 1) <small>[Bu ders BIO_NTE-1 ders grubundan alınacaktır, aşağıya bakınız]</small>	2	0	3	3
3	BIOE2201	Microbiology for Bioengineers	2	2	5	5
4	BIOE2211	Bioengineering Principles	3	0	6	6
5	BIOE2215	Biochemistry for Bioengineers	3	2	6	6
6	ECON2003	Introduction to Economics	3	0	4	4
7	MATH2055	Differential Equations	3	0	4	4
Toplam			18	4	30,00	30,00

**4. YARIYIL**

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	ATA122	Atatürk İlkeleri ve İnkılap Tarihi II	2	0	2	2
2	BIO_NTE-2	Non-technical Elective (Ders 1) <small>[Bu ders BIO_NTE-2 ders grubundan alınacaktır, aşağıya bakınız]</small>	2	0	3	3
3	BIOE2202	Molecular Biology and Genetics	2	2	5	5
4	BIOE2240	Bioreaction Kinetics	3	0	5	5
5	BIOE2262	Mathematical Applications in Bioengineering	2	2	5	5
6	BIOE2282	Bioengineering Thermodynamics	3	0	5	5
7	STAT2252	Biostatistics	3	0	5	5
Toplam			17	4	30,00	30,00

**5. YARIYIL**

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BIO_TE-1	Technical Elective (Ders 1) <small>[Bu ders BIO_TE-1 ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	5	5
2	BIOE3200	Summer Practice I	0	0	10	10
3	BIOE3211	Bioengineering Lab I	0	4	5	5
4	BIOE3215	Biotransport Phenomena I	3	0	5	5
5	BIOE3235	Bioprocess Unit Operations I	3	0	5	5
6	BIOE3271	Bioinformatics	3	0	5	5
7	BIOE3273	Cell and Tissue Culture	3	0	5	5
Toplam			15	4	40,00	40,00

**6. YARIYIL**

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BIO_TE-2,3	Technical Elective (Ders 1) <small>[Bu ders BIO_TE-2,3 ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	5	5
2	BIO_TE-2,3	Technical Elective (Ders 2) <small>[Bu ders BIO_TE-2,3 ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	5	5
3	BIOE3212	Bioengineering Lab II	0	4	5	5
4	BIOE3216	Biotransport Phenomena II	3	0	5	5
5	BIOE3236	Bioprocess Unit Operations II	3	0	5	5
6	BIOE3242	Bioreactor Design	3	0	5	5
Toplam			15	4	30,00	30,00

**7. YARIYIL**

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BIO_TE-4	Technical Elective (Ders 1) <small>[Bu ders BIO_TE-4 ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	5	5
2	BIOE4200	Summer Practice II	0	0	10	10
3	BIOE4265	Bioprocess Dynamics and Control	3	0	5	5
4	BIOE4290	Innovation and Entrepreneurship	3	0	5	5
5	BIOE4291	Computer Aided Unit Operations Design	3	2	8	8
6	BIOE4297	Bioengineering Project I	0	4	7	7
Toplam			12	6	40,00	40,00

**8. YARIYIL**

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BIO_TE-5	Technical Elective (Ders 1) <small>[Bu ders BIO_TE-5 ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	5	5
2	BIOE4266	Analytical Techniques in Bioengineering	3	0	5	5
3	BIOE4292	Bioprocess Design and Economics	3	2	8	8
4	BIOE4298	Bioengineering Project II	0	4	7	7
5	ENG-FTE	Faculty Technical Electives (Ders 1) <small>[Bu ders ENG-FTE ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	5	5
Toplam			12	6	30,00	30,00

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**Kredi : 260**

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ENG-UE						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BUS1003	Entrepreneurship and Innovation	2	0	3	3
2	BUS1004	Strategic Entrepreneurship	2	0	3	3
3	BUS2005	International Business	2	0	3	3
4	CAS1001	Self Management	2	0	3	3
5	CAS1010	Our Biosphere	2	0	3	3
6	CAS1061	Geometric Origami	2	0	3	3
7	CAS2001	Energy for Physical Activity	2	0	3	3
8	CAS2002	Human Performance and Nutrition	2	0	3	3
9	CAS2003	Cardiopulmonary Resuscitation and First Aid Basics	2	0	3	3
10	CAS2004	Interpersonal Relations and Communication	2	0	3	3
11	CAS2005	Trekking and Orienteering	2	0	3	3
12	CAS3001	Earthquake and Rescue Principles	2	0	3	3
13	CAS3044	Positive Thinking	2	0	3	3
14	COMM2060	Communication Models and Techniques	2	0	3	3
15	FNCE3003	Investment Planning	2	0	3	3
16	HR1013	Career Development	2	0	3	3
17	HR4001	Career Orientation	2	0	3	3
18	HSS3002	Ethics in Engineering and Science	2	0	3	3
19	IKT1054	Industrial and Economic Sociology	2	0	3	3
20	INF1001	Information Literacy in Engineering	2	0	3	3
21	LAW2004	Labor Law	2	0	3	3
22	MAN1001	Principles of Managerial Economics & Financial Management	2	0	3	3
23	MGT1021	Design, Innovation and Entrepreneurship	2	0	3	3
24	MGT3082	Creativity and Innovation Management	2	0	3	3
25	MGT4083	Sustainability Management	2	0	3	3
26	MRK3082	Integrated Marketing Communication	2	0	3	3
27	MRK3084	Brand Creation/Branding	2	0	3	3
28	NTE1002	Effects of Human Behaviour on Environment	2	0	3	3
29	NTE1003	The Culture of Radiation Safety	2	0	3	3
30	NTE1004	World Cultures	2	0	3	3
31	NTE1006	Basic Principles of Accessibility in Informatics and Technology	2	0	3	3
32	NTE1008	Cinema	2	0	3	3
33	NTE1010	Introduction to Finance for Engineers	2	0	3	3
34	NTE1011	Business Communication	2	0	3	3
35	NTE1012	Introduction to Corporate Governance for Engineers	2	0	3	3
36	NTE1013	Business Intelligence for Managers	2	0	3	3
37	NTE1014	Introduction to Strategic Human Resources Management	2	0	3	3
38	NTE1015	Introduction to Leadership & Management for Engineers	2	0	3	3
39	NTE1016	Introduction to Strategy for Engineers	2	0	3	3
40	NTE1017	Marketing in a Technology Driven world for Engineers	2	0	3	3
41	NTE1019	Introduction to Programming with Python	2	0	3	3
42	OB2040	Industrial Psychology	2	0	3	3
43	OB2041	Behavioral Sciences for Engineers	2	0	3	3
44	OB3043	Organizational Behaviour	2	0	3	3
45	SOC3082	Environmental Sociology	2	0	3	3
46	YDA1001	German for Beginners	2	0	3	3
47	YDA1002	German	2	0	3	3
48	YDA1003	German Communication	2	0	3	3
49	YDA2001	Seminars in German	2	0	3	3
50	YDAR1001	Arabic for Beginners	2	0	3	3

BIO_NTE-1						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BUS1003	Entrepreneurship and Innovation	2	0	3	3
2	BUS1004	Strategic Entrepreneurship	2	0	3	3
3	BUS2005	International Business	2	0	3	3
4	CAS1001	Self Management	2	0	3	3
5	CAS1010	Our Biosphere	2	0	3	3
6	CAS1061	Geometric Origami	2	0	3	3
7	CAS2001	Energy for Physical Activity	2	0	3	3
8	CAS2002	Human Performance and Nutrition	2	0	3	3
9	CAS2003	Cardiopulmonary Resuscitation and First Aid Basics	2	0	3	3
10	CAS2004	Interpersonal Relations and Communication	2	0	3	3
11	CAS2005	Trekking and Orienteering	2	0	3	3
12	CAS3001	Earthquake and Rescue Principles	2	0	3	3
13	CAS3044	Positive Thinking	2	0	3	3
14	COMM2060	Communication Models and Techniques	2	0	3	3
15	FNCE3003	Investment Planning	2	0	3	3
16	HR1013	Career Development	2	0	3	3
17	HR4001	Career Orientation	2	0	3	3
18	HSS3002	Ethics in Engineering and Science	2	0	3	3
19	IKT1054	Industrial and Economic Sociology	2	0	3	3
20	INF1001	Information Literacy in Engineering	2	0	3	3
21	LAW2004	Labor Law	2	0	3	3
22	MAN1001	Principles of Managerial Economics & Financial Management	2	0	3	3
23	MGT1021	Design, Innovation and Entrepreneurship	2	0	3	3
24	MGT3082	Creativity and Innovation Management	2	0	3	3
25	MGT4083	Sustainability Management	2	0	3	3
26	MRK3082	Integrated Marketing Communication	2	0	3	3
27	MRK3084	Brand Creation/Branding	2	0	3	3
28	NTE1002	Effects of Human Behaviour on Environment	2	0	3	3
29	NTE1003	The Culture of Radiation Safety	2	0	3	3
30	NTE1004	World Cultures	2	0	3	3
31	NTE1006	Basic Principles of Accessibility in Informatics and Technology	2	0	3	3
32	NTE1008	Cinema	2	0	3	3
33	NTE1010	Introduction to Finance for Engineers	2	0	3	3
34	NTE1011	Business Communication	2	0	3	3
35	NTE1012	Introduction to Corporate Governance for Engineers	2	0	3	3
36	NTE1013	Business Intelligence for Managers	2	0	3	3
37	NTE1014	Introduction to Strategic Human Resources Management	2	0	3	3
38	NTE1015	Introduction to Leadership & Management for Engineers	2	0	3	3
39	NTE1016	Introduction to Strategy for Engineers	2	0	3	3
40	NTE1017	Marketing in a Technology Driven world for Engineers	2	0	3	3
41	NTE1019	Introduction to Programming with Python	2	0	3	3
42	OB2040	Industrial Psychology	2	0	3	3
43	OB2041	Behavioral Sciences for Engineers	2	0	3	3
44	OB3043	Organizational Behaviour	2	0	3	3
45	SOC3082	Environmental Sociology	2	0	3	3
46	YDA1001	German for Beginners	2	0	3	3
47	YDA1002	German	2	0	3	3
48	YDA1003	German Communication	2	0	3	3
49	YDA2001	Seminars in German	2	0	3	3
50	YDAR1001	Arabic for Beginners	2	0	3	3

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51	YDC1001	Chinese - I	2	0	3	3
52	YDC1002	Chinese - II	2	0	3	3
53	YDC1003	Chinese - III	2	0	3	3
54	YDF1001	French for Beginners	2	0	3	3
55	YDF1002	French	2	0	3	3
56	YDI1004	Report Writing in English	2	0	3	3
57	YDIS1001	Spanish for Beginners	2	0	3	3
58	YDIS1002	Spanish	2	0	3	3
59	YDJ1001	Japanese - I	2	0	3	3

51	YDC1001	Chinese - I	2	0	3	3
52	YDC1002	Chinese - II	2	0	3	3
53	YDC1003	Chinese - III	2	0	3	3
54	YDF1001	French for Beginners	2	0	3	3
55	YDF1002	French	2	0	3	3
56	YDI1004	Report Writing in English	2	0	3	3
57	YDIS1001	Spanish for Beginners	2	0	3	3
58	YDIS1002	Spanish	2	0	3	3
59	YDJ1001	Japanese - I	2	0	3	3

**BIO\_NTE-2**

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BUS1003	Entrepreneurship and Innovation	2	0	3	3
2	BUS1004	Strategic Entrepreneurship	2	0	3	3
3	BUS2005	International Business	2	0	3	3
4	CAS1001	Self Management	2	0	3	3
5	CAS1010	Our Biosphere	2	0	3	3
6	CAS1061	Geometric Origami	2	0	3	3
7	CAS2001	Energy for Physical Activity	2	0	3	3
8	CAS2002	Human Performance and Nutrition	2	0	3	3
9	CAS2003	Cardiopulmonary Resuscitation and First Aid Basics	2	0	3	3
10	CAS2004	Interpersonal Relations and Communication	2	0	3	3
11	CAS2005	Trekking and Orienteering	2	0	3	3
12	CAS3001	Earthquake and Rescue Principles	2	0	3	3
13	CAS3044	Positive Thinking	2	0	3	3
14	COMM2060	Communication Models and Techniques	2	0	3	3
15	FNCE3003	Investment Planning	2	0	3	3
16	HR1013	Career Development	2	0	3	3
17	HR4001	Career Orientation	2	0	3	3
18	HSS3002	Ethics in Engineering and Science	2	0	3	3
19	IKT1054	Industrial and Economic Sociology	2	0	3	3
20	INF1001	Information Literacy in Engineering	2	0	3	3
21	LAW2004	Labor Law	2	0	3	3
22	MAN1001	Principles of Managerial Economics & Financial Management	2	0	3	3
23	MGT1021	Design, Innovation and Entrepreneurship	2	0	3	3
24	MGT3082	Creativity and Innovation Management	2	0	3	3
25	MGT4083	Sustainability Management	2	0	3	3
26	MRK3082	Integrated Marketing Communication	2	0	3	3
27	MRK3084	Brand Creation/Branding	2	0	3	3
28	NTE1002	Effects of Human Behaviour on Environment	2	0	3	3
29	NTE1003	The Culture of Radiation Safety	2	0	3	3
30	NTE1004	World Cultures	2	0	3	3
31	NTE1006	Basic Principles of Accessibility in Informatics and Technology	2	0	3	3
32	NTE1008	Cinema	2	0	3	3
33	NTE1010	Introduction to Finance for Engineers	2	0	3	3
34	NTE1011	Business Communication	2	0	3	3
35	NTE1012	Introduction to Corporate Governance for Engineers	2	0	3	3
36	NTE1013	Business Intelligence for Managers	2	0	3	3
37	NTE1014	Introduction to Strategic Human Resources Management	2	0	3	3
38	NTE1015	Introduction to Leadership & Management for Engineers	2	0	3	3
39	NTE1016	Introduction to Strategy for Engineers	2	0	3	3
40	NTE1017	Marketing in a Technology Driven world for Engineers	2	0	3	3

**BIO\_TE-1**

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BIOE3202	Industrial Microbiology	3	0	5	5
2	BIOE3203	Modern Techniques in Bioengineering	3	0	5	5
3	BIOE3204	Protein Interactions	3	0	5	5
4	BIOE3205	Introduction to Toxicology	3	0	5	5
5	BIOE3206	Introduction to Immunology	3	0	5	5
6	BIOE3207	Introduction to Biomedical Optics	3	0	5	5
7	BIOE3213	Introduction to Protein Structure and Function	3	0	5	5
8	BIOE3232	Introduction to Systems Biology	3	0	5	5
9	BIOE3250	Bioprocess Optimization	3	0	5	5
10	BIOE3252	Introduction to Computational Structural Biology	3	0	5	5
11	BIOE3253	Cellular and Metabolic Engineering	3	0	5	5
12	BIOE4201	Recombinant DNA Technology	3	0	5	5
13	BIOE4202	Special Topics in Biomedical Engineering	3	0	5	5
14	BIOE4203	Environmental Biotechnology	3	0	5	5
15	BIOE4204	Food Biotechnology	3	0	5	5
16	BIOE4205	Industrial Biotechnology	3	0	5	5
17	BIOE4206	Biomedical Imaging and Diagnostics	3	0	5	5
18	BIOE4207	Advanced Biomedical Optics	3	0	5	5
19	BIOE4221	Tissue Engineering	3	0	5	5
20	BIOE4223	Protein Engineering	3	0	5	5
21	BIOE4231	Cell Culture Techniques and Applications	3	0	5	5
22	BIOE4255	Fundamentals of Machine Learning	3	0	5	5
23	BIOE4271	Management of Bioprocess Development	3	0	5	5
24	BIOE4272	Sustainable Biotechnology	3	0	5	5
25	BIOE4293	Special Topics in Bioengineering I	3	0	5	5
26	BIOE4294	Special Topics in Bioengineering II	3	0	5	5

**BIO\_TE-4**

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BIOE3202	Industrial Microbiology	3	0	5	5
2	BIOE3203	Modern Techniques in Bioengineering	3	0	5	5
3	BIOE3204	Protein Interactions	3	0	5	5
4	BIOE3205	Introduction to Toxicology	3	0	5	5
5	BIOE3206	Introduction to Immunology	3	0	5	5
6	BIOE3207	Introduction to Biomedical Optics	3	0	5	5
7	BIOE3213	Introduction to Protein Structure and Function	3	0	5	5
8	BIOE3232	Introduction to Systems Biology	3	0	5	5
9	BIOE3250	Bioprocess Optimization	3	0	5	5
10	BIOE3252	Introduction to Computational Structural Biology	3	0	5	5
11	BIOE3253	Cellular and Metabolic Engineering	3	0	5	5
12	BIOE4201	Recombinant DNA Technology	3	0	5	5

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41	NTE1019	Introduction to Programming with Python	2	0	3	3
42	OB2040	Industrial Psychology	2	0	3	3
43	OB2041	Behavioral Sciences for Engineers	2	0	3	3
44	OB3043	Organizational Behaviour	2	0	3	3
45	SOC3082	Environmental Sociology	2	0	3	3
46	YDA1001	German for Beginners	2	0	3	3
47	YDA1002	German	2	0	3	3
48	YDA1003	German Communication	2	0	3	3
49	YDA2001	Seminars in German	2	0	3	3
50	YDAR1001	Arabic for Beginners	2	0	3	3
51	YDC1001	Chinese - I	2	0	3	3
52	YDC1002	Chinese - II	2	0	3	3
53	YDC1003	Chinese - III	2	0	3	3
54	YDF1001	French for Beginners	2	0	3	3
55	YDF1002	French	2	0	3	3
56	YDI1004	Report Writing in English	2	0	3	3
57	YDIS1001	Spanish for Beginners	2	0	3	3
58	YDIS1002	Spanish	2	0	3	3
59	YDJ1001	Japanese - I	2	0	3	3

13	BIOE4202	Special Topics in Biomedical Engineering	3	0	5	5
14	BIOE4203	Environmental Biotechnology	3	0	5	5
15	BIOE4204	Food Biotechnology	3	0	5	5
16	BIOE4205	Industrial Biotechnology	3	0	5	5
17	BIOE4206	Biomedical Imaging and Diagnostics	3	0	5	5
18	BIOE4207	Advanced Biomedical Optics	3	0	5	5
19	BIOE4221	Tissue Engineering	3	0	5	5
20	BIOE4223	Protein Engineering	3	0	5	5
21	BIOE4231	Cell Culture Techniques and Applications	3	0	5	5
22	BIOE4255	Fundamentals of Machine Learning	3	0	5	5
23	BIOE4271	Management of Bioprocess Development	3	0	5	5
24	BIOE4272	Sustainable Biotechnology	3	0	5	5
25	BIOE4293	Special Topics in Bioengineering I	3	0	5	5
26	BIOE4294	Special Topics in Bioengineering II	3	0	5	5

<b>BIO_TE-2,3</b>						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BIOE3202	Industrial Microbiology	3	0	5	5
2	BIOE3203	Modern Techniques in Bioengineering	3	0	5	5
3	BIOE3204	Protein Interactions	3	0	5	5
4	BIOE3205	Introduction to Toxicology	3	0	5	5
5	BIOE3206	Introduction to Immunology	3	0	5	5
6	BIOE3207	Introduction to Biomedical Optics	3	0	5	5
7	BIOE3213	Introduction to Protein Structure and Function	3	0	5	5
8	BIOE3232	Introduction to Systems Biology	3	0	5	5
9	BIOE3250	Bioprocess Optimization	3	0	5	5
10	BIOE3252	Introduction to Computational Structural Biology	3	0	5	5
11	BIOE3253	Cellular and Metabolic Engineering	3	0	5	5
12	BIOE4201	Recombinant DNA Technology	3	0	5	5
13	BIOE4202	Special Topics in Biomedical Engineering	3	0	5	5
14	BIOE4203	Environmental Biotechnology	3	0	5	5
15	BIOE4204	Food Biotechnology	3	0	5	5
16	BIOE4205	Industrial Biotechnology	3	0	5	5
17	BIOE4206	Biomedical Imaging and Diagnostics	3	0	5	5
18	BIOE4207	Advanced Biomedical Optics	3	0	5	5
19	BIOE4221	Tissue Engineering	3	0	5	5
20	BIOE4223	Protein Engineering	3	0	5	5
21	BIOE4231	Cell Culture Techniques and Applications	3	0	5	5
22	BIOE4255	Fundamentals of Machine Learning	3	0	5	5
23	BIOE4271	Management of Bioprocess Development	3	0	5	5
24	BIOE4272	Sustainable Biotechnology	3	0	5	5
25	BIOE4293	Special Topics in Bioengineering I	3	0	5	5
26	BIOE4294	Special Topics in Bioengineering II	3	0	5	5

<b>BIO_TE-5</b>						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BIOE3202	Industrial Microbiology	3	0	5	5
2	BIOE3203	Modern Techniques in Bioengineering	3	0	5	5
3	BIOE3204	Protein Interactions	3	0	5	5

<b>ENG-FTE</b>						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BIOE4072	Planning and Management of Research	3	0	5	5
2	CHE4060	Cost Management in Chemical Industries	3	0	5	5
3	CHE4068	Financial Engineering	3	0	5	5
4	CHE4080	Chemical Engineering for Sustainable Biosphere	3	0	5	5
5	CSE4044	Software Project Management	3	0	5	5
6	CSE4056	Management of Information Systems	3	0	5	5
7	CSE4057	Information Systems Security	3	0	5	5
8	CSE4062	Introduction to Data Science and Analytics	3	0	5	5
9	CSE4084	Multimedia Systems	3	0	5	5
10	CSE4088	Introduction to Machine Learning	3	0	5	5
11	EE4056	Introduction to Information Systems Management	3	0	5	5
12	EE4057	Introduction to Systems Security	3	0	5	5
13	EE4062	Introduction to Image Processing	3	0	5	5
14	ENVE4062	Energy and the Environment	3	0	5	5
15	ENVE4063	Construction Materials for Environmental Engineering	3	0	5	5
16	IE4055	Design of Experiments	3	0	5	5
17	IE4087	Introduction to Total Quality Management	3	0	5	5
18	ME3004	Mathematical Modeling in Mechanical Engineering	3	0	5	5
19	ME3022	Mechatronics	3	0	5	5
20	ME4018	Introduction to Robotics	3	0	5	5
21	ME4022	Control Systems	3	0	5	5
22	ME4033	Designing Quality Products	3	0	5	5
23	ME4051	Automotive Engineering	3	0	5	5
24	MGT4076	Quality Management System in Automotive Industry	3	0	5	5
25	MGT4078	Sustainable Innovation and Circular Economy	3	0	5	5
26	MGT4082	Advanced Innovative Design Management for Entrepreneurship	3	0	5	5
27	MGT4084	Innovation and New Product Development Management	3	0	5	5
28	MGT4086	Managing Engineering and Technology	3	0	5	5
29	MGT4088	Project Management for Engineers	3	0	5	5
30	MGT4090	Business Management for Engineers	3	0	5	5
31	MSE4073	Materials Engineering Economics and Plant Design	3	0	5	5
32	MSE4074	Total Quality Management in Materials Engineering	3	0	5	5

**Mühendislik Fakültesi****Biyomühendislik (İngilizce) - Dönemlik****Lisans - 2023 - Biyomühendislik - Lisans****Genel Toplam****Ders Adedi :53****T : 129****U : 34****Kredi : 260****ECTS : 260****T+U : 163**

4	BIOE3205	Introduction to Toxicology	3	0	5	5
5	BIOE3206	Introduction to Immunology	3	0	5	5
6	BIOE3207	Introduction to Biomedical Optics	3	0	5	5
7	BIOE3213	Introduction to Protein Structure and Function	3	0	5	5
8	BIOE3232	Introduction to Systems Biology	3	0	5	5
9	BIOE3250	Bioprocess Optimization	3	0	5	5
10	BIOE3252	Introduction to Computational Structural Biology	3	0	5	5
11	BIOE3253	Cellular and Metabolic Engineering	3	0	5	5
12	BIOE4201	Recombinant DNA Technology	3	0	5	5
13	BIOE4202	Special Topics in Biomedical Engineering	3	0	5	5
14	BIOE4203	Environmental Biotechnology	3	0	5	5
15	BIOE4204	Food Biotechnology	3	0	5	5
16	BIOE4205	Industrial Biotechnology	3	0	5	5
17	BIOE4206	Biomedical Imaging and Diagnostics	3	0	5	5
18	BIOE4207	Advanced Biomedical Optics	3	0	5	5
19	BIOE4221	Tissue Engineering	3	0	5	5
20	BIOE4223	Protein Engineering	3	0	5	5
21	BIOE4231	Cell Culture Techniques and Applications	3	0	5	5
22	BIOE4255	Fundamentals of Machine Learning	3	0	5	5
23	BIOE4271	Management of Bioprocess Development	3	0	5	5
24	BIOE4272	Sustainable Biotechnology	3	0	5	5
25	BIOE4293	Special Topics in Bioengineering I	3	0	5	5
26	BIOE4294	Special Topics in Bioengineering II	3	0	5	5