

Fen Bilimleri Enstitüsü

Biyomühendislik (İngilizce) - Dönemlik

Biyomühendislik (İngilizce) - Lisansüstü - Biyomühendislik - Biyomühendislik (İngilizce) - Tezli Yüksek Lisans - 2014

1. YARIYIL						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BIOE-CC1-YL	Core- 1 (Ders 1) <small>[Bu ders BIOE-CC1-YL ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	8	8
2	BIOE-EC1,2,3-LD	Elective Course - 1-2-3 (Ders 1) <small>[Bu ders BIOE-EC1,2,3-LD ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	8	8
3	BIOE-EC1,2,3-LD	Elective Course - 1-2-3 (Ders 2) <small>[Bu ders BIOE-EC1,2,3-LD ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	8	8
4	BIOE-EC1,2,3-LD	Elective Course - 1-2-3 (Ders 3) <small>[Bu ders BIOE-EC1,2,3-LD ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	8	8
Toplam			12	0	32,00	32,00

2. YARIYIL						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BIOE7000	Seminar	0	2	4	4
2	BIOE-CC2-YL	Core- 2 (Ders 1) <small>[Bu ders BIOE-CC2-YL ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	8	8
3	BIOE-EC4,5-YL	Elective -4-5 (Ders 1) <small>[Bu ders BIOE-EC4,5-YL ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	8	8
4	BIOE-EC4,5-YL	Elective -4-5 (Ders 2) <small>[Bu ders BIOE-EC4,5-YL ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	8	8
Toplam			9	2	28,00	28,00

BIOE-CC1-YL						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BIOE7003	Basic Techniques in Bioprocess Engineering	3	0	8	8
2	BIOE7007	Basic Techniques in Molecular Biology	3	0	8	8
3	BIOE7009	Downstream Processing	3	0	8	8
4	BIOE7011	Fermentation Technology	3	0	8	8
5	BIOE7013	Bioengineering Fundamentals	3	0	8	8
6	BIOE7066	Advanced Biotransport	3	0	8	8
7	BIOE7073	Mathematical Modeling in Biological Systems	3	0	8	8
8	BIOE7081	Enzyme Technology	3	0	8	8

BIOE-EC1,2,3-LD						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BIOE7002	Advanced Bioinformatics	3	0	8	8
2	BIOE7003	Basic Techniques in Bioprocess Engineering	3	0	8	8
3	BIOE7004	Carbohydrate Technology	3	0	8	8
4	BIOE7005	Mathematical Applications in Biological Systems	3	0	8	8
5	BIOE7006	Microbial Proteomics	3	0	8	8
6	BIOE7007	Basic Techniques in Molecular Biology	3	0	8	8
7	BIOE7008	Plant Biodiversity and Genetic Resources	3	0	8	8
8	BIOE7009	Downstream Processing	3	0	8	8
9	BIOE7010	Plant Molecular Cytogenetics	3	0	8	8
10	BIOE7011	Fermentation Technology	3	0	8	8
11	BIOE7012	Recent Advances in Plant Biotechnology	3	0	8	8
12	BIOE7013	Bioengineering Fundamentals	3	0	8	8
13	BIOE7014	Introduction to Biomechanics	3	0	8	8
14	BIOE7018	Biotechnology	3	0	8	8
15	BIOE7019	Biomaterial Science and Engineering	3	0	8	8
16	BIOE7023	Biopolymers	3	0	8	8
17	BIOE7024	Tissue Engineering	3	0	8	8
18	BIOE7029	Cell Culture Methods	3	0	8	8
19	BIOE7030	Advanced Cell Biology	3	0	8	8
20	BIOE7039	Advanced Molecular Biology	3	0	8	8
21	BIOE7040	Cellular Engineering	3	0	8	8
22	BIOE7045	Chemical Immunology	3	0	8	8
23	BIOE7047	Protein Engineering	3	0	8	8
24	BIOE7050	Chromosome Biology and Cytogenomics	3	0	8	8
25	BIOE7055	Biostatistics	3	0	8	8
26	BIOE7057	Biomedical Signal Processing	3	0	8	8
27	BIOE7059	Neural Network	3	0	8	8
28	BIOE7061	Eucaryotic Biotechnology	3	0	8	8
29	BIOE7063	Immuno Biotechnology	3	0	8	8
30	BIOE7065	Introduction to Environmental Bioengineering	3	0	8	8
31	BIOE7066	Advanced Biotransport	3	0	8	8
32	BIOE7067	Structural Dynamics of Proteins	3	0	8	8
33	BIOE7070	Metabolism and Cellular Adaptation	3	0	8	8
34	BIOE7071	Sterilization	3	0	8	8
35	BIOE7072	Protein Interactions	3	0	8	8
36	BIOE7075	Motion Biomechanics	3	0	8	8
37	BIOE7076	Immobilization	3	0	8	8
38	BIOE7077	Biomedical Instrumentation and Measurements	3	0	8	8
39	BIOE7078	Biosafety	3	0	8	8
40	BIOE7079	Biological Control Systems	3	0	8	8
41	BIOE7081	Enzyme Technology	3	0	8	8

BIOE-CC2-YL						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BIOE7003	Basic Techniques in Bioprocess Engineering	3	0	8	8
2	BIOE7007	Basic Techniques in Molecular Biology	3	0	8	8
3	BIOE7009	Downstream Processing	3	0	8	8
4	BIOE7011	Fermentation Technology	3	0	8	8
5	BIOE7013	Bioengineering Fundamentals	3	0	8	8
6	BIOE7066	Advanced Biotransport	3	0	8	8
7	BIOE7073	Mathematical Modeling in Biological Systems	3	0	8	8
8	BIOE7081	Enzyme Technology	3	0	8	8

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42	BIOE7085	Bioanalytical Techniques	3	0	8	8
43	BIOE7086	System Biology	3	0	8	8
44	BIOE7089	Engineering Medicine	3	0	8	8
45	BIOE7095	Special Topics in Bioengineering I	3	0	8	8
46	BIOE7096	Special Topics in Bioengineering II	3	0	8	8
47	BIOE8001	Metabolomics	3	0	8	8
48	BIOE8002	Functional Glycomics	3	0	8	8
49	BIOE8003	Structural and Functional Genomics	3	0	8	8
50	BIOE8004	Agricultural Biotechnology	3	0	8	8
51	BIOE8005	Molecular Plant Breeding	3	0	8	8
52	BIOE8016	Advanced Biochemistry	3	0	8	8
53	BIOE8018	Functional Genomics	3	0	8	8
54	BIOE8023	Environmental Bioengineering	3	0	8	8
55	BIOE8024	Biochemical Engineering and New Bioprocess Challenges	3	0	8	8
56	BIOE8025	Drug Delivery Systems I	3	0	8	8
57	BIOE8026	Drug Delivery Systems II	3	0	8	8
58	BIOE8028	Advanced Molecular Dynamics of Proteins	3	0	8	8
59	BIOE8029	Two Dimensional Electrophoresis and Mass Spectrometry	3	0	8	8
60	BIOE8030	Statistical Bioinformatics	3	0	8	8
61	BIOE8035	Nanomaterials and Applications	3	0	8	8
62	BIOE8038	Computational Molecular Biology	3	0	8	8
63	BIOE8039	Metabolic Engineering	3	0	8	8
64	BIOE8040	Bioprocess Optimization	3	0	8	8
65	BIOE8043	Advanced Biomaterials	3	0	8	8
66	BIOE8047	Biological Networks Theory	3	0	8	8
67	BIOE8050	Modern Control Theory	3	0	8	8
68	BIOE8053	Mutagenesis and Gene Therapy	3	0	8	8
69	BIOE8055	Methods in Biotechnology	3	0	8	8
70	BIOE8057	Physiology for Bioengineers	3	0	8	8
71	BIOE8058	Regulation of Gene Expression	3	0	8	8
72	BIOE8061	Molecular Genetics	3	0	8	8
73	BIOE8063	Signal Transduction	3	0	8	8
74	BIOE8066	Proteins: Structure and Function	3	0	8	8
75	BIOE8067	Appraisal and Application of Life Sciences	3	0	8	8
76	BIOE8070	Computational Structural Biology	3	0	8	8
77	BIOE8072	Human Genetics	3	0	8	8
78	BIOE8074	Biodegradable Polymers	3	0	8	8
79	BIOE8076	Advanced Biotechniques	3	0	8	8
80	BIOE8079	Bioprocess Design and Implementation	3	0	8	8
81	BIOE8082	Bioprocess Validation	3	0	8	8
82	BIOE8086	Management of Bioprocess Ventures	3	0	8	8
83	BIOE8089	Planning and Management of Research	3	0	8	8
84	BIOE8095	Advanced Topics in Bioengineering I	3	0	8	8
85	BIOE8096	Advanced Topics in Bioengineering II	3	0	8	8

BIOE-EC4,5-YL

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BIOE7002	Advanced Bioinformatics	3	0	8	8
2	BIOE7003	Basic Techniques in Bioprocess Engineering	3	0	8	8
3	BIOE7004	Carbohydrate Technology	3	0	8	8
4	BIOE7005	Mathematical Applications in Biological Systems	3	0	8	8
5	BIOE7006	Microbial Proteomics	3	0	8	8
6	BIOE7007	Basic Techniques in Molecular Biology	3	0	8	8
7	BIOE7008	Plant Biodiversity and Genetic Resources	3	0	8	8

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8	BIOE7009	Downstream Processing	3	0	8	8
9	BIOE7010	Plant Molecular Cytogenetics	3	0	8	8
10	BIOE7011	Fermentation Technology	3	0	8	8
11	BIOE7012	Recent Advances in Plant Biotechnology	3	0	8	8
12	BIOE7013	Bioengineering Fundamentals	3	0	8	8
13	BIOE7014	Introduction to Biomechanics	3	0	8	8
14	BIOE7018	Biotechnology	3	0	8	8
15	BIOE7019	Biomaterial Science and Engineering	3	0	8	8
16	BIOE7023	Biopolymers	3	0	8	8
17	BIOE7024	Tissue Engineering	3	0	8	8
18	BIOE7029	Cell Culture Methods	3	0	8	8
19	BIOE7030	Advanced Cell Biology	3	0	8	8
20	BIOE7039	Advanced Molecular Biology	3	0	8	8
21	BIOE7040	Cellular Engineering	3	0	8	8
22	BIOE7045	Chemical Immunology	3	0	8	8
23	BIOE7047	Protein Engineering	3	0	8	8
24	BIOE7050	Chromosome Biology and Cytogenomics	3	0	8	8
25	BIOE7055	Biostatistics	3	0	8	8
26	BIOE7057	Biomedical Signal Processing	3	0	8	8
27	BIOE7059	Neural Network	3	0	8	8
28	BIOE7061	Eucaryotic Biotechnology	3	0	8	8
29	BIOE7063	Immuno Biotechnology	3	0	8	8
30	BIOE7065	Introduction to Environmental Bioengineering	3	0	8	8
31	BIOE7066	Advanced Biotransport	3	0	8	8
32	BIOE7067	Structural Dynamics of Proteins	3	0	8	8
33	BIOE7070	Metabolism and Cellular Adaptation	3	0	8	8
34	BIOE7071	Sterilization	3	0	8	8
35	BIOE7072	Protein Interactions	3	0	8	8
36	BIOE7075	Motion Biomechanics	3	0	8	8
37	BIOE7076	Immobilization	3	0	8	8
38	BIOE7077	Biomedical Instrumentation and Measurements	3	0	8	8
39	BIOE7078	Biosafety	3	0	8	8
40	BIOE7079	Biological Control Systems	3	0	8	8
41	BIOE7081	Enzyme Technology	3	0	8	8
42	BIOE7085	Bioanalytical Techniques	3	0	8	8
43	BIOE7086	System Biology	3	0	8	8
44	BIOE7089	Engineering Medicine	3	0	8	8
45	BIOE7095	Special Topics in Bioengineering I	3	0	8	8
46	BIOE7096	Special Topics in Bioengineering II	3	0	8	8
47	BIOE8001	Metabolomics	3	0	8	8
48	BIOE8002	Functional Glycomics	3	0	8	8
49	BIOE8003	Structural and Functional Genomics	3	0	8	8
50	BIOE8004	Agricultural Biotechnology	3	0	8	8
51	BIOE8005	Molecular Plant Breeding	3	0	8	8
52	BIOE8016	Advanced Biochemistry	3	0	8	8
53	BIOE8018	Functional Genomics	3	0	8	8
54	BIOE8023	Environmental Bioengineering	3	0	8	8
55	BIOE8024	Biochemical Engineering and New Bioprocess Challenges	3	0	8	8
56	BIOE8025	Drug Delivery Systems I	3	0	8	8
57	BIOE8026	Drug Delivery Systems II	3	0	8	8
58	BIOE8028	Advanced Molecular Dynamics of Proteins	3	0	8	8
59	BIOE8029	Two Dimensional Electrophoresis and Mass Spectrometry	3	0	8	8
60	BIOE8030	Statistical Bioinformatics	3	0	8	8
61	BIOE8035	Nanomaterials and Applications	3	0	8	8
62	BIOE8038	Computational Molecular Biology	3	0	8	8
63	BIOE8039	Metabolic Engineering	3	0	8	8
64	BIOE8040	Bioprocess Optimization	3	0	8	8

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65	BIOE8043	Advanced Biomaterials	3	0	8	8
66	BIOE8047	Biological Networks Theory	3	0	8	8
67	BIOE8050	Modern Control Theory	3	0	8	8
68	BIOE8053	Mutagenesis and Gene Therapy	3	0	8	8
69	BIOE8055	Methods in Biotechnology	3	0	8	8
70	BIOE8057	Physiology for Bioengineers	3	0	8	8
71	BIOE8058	Regulation of Gene Expression	3	0	8	8
72	BIOE8061	Molecular Genetics	3	0	8	8
73	BIOE8063	Signal Transduction	3	0	8	8
74	BIOE8066	Proteins: Structure and Function	3	0	8	8
75	BIOE8067	Appraisal and Application of Life Sciences	3	0	8	8
76	BIOE8070	Computational Structural Biology	3	0	8	8
77	BIOE8072	Human Genetics	3	0	8	8
78	BIOE8074	Biodegradable Polymers	3	0	8	8
79	BIOE8076	Advanced Biotechniques	3	0	8	8
80	BIOE8079	Bioprocess Design and Implementation	3	0	8	8
81	BIOE8082	Bioprocess Validation	3	0	8	8
82	BIOE8086	Management of Bioprocess Ventures	3	0	8	8
83	BIOE8089	Planning and Management of Research	3	0	8	8
84	BIOE8095	Advanced Topics in Bioengineering I	3	0	8	8
85	BIOE8096	Advanced Topics in Bioengineering II	3	0	8	8