

Marmara University – Graduate School

Environmental Engineering– Master’s Program

1. SEMESTER						2. SEMESTER					
No	Code	Course Name	T	P	ECTS	No	Code	Course Name	T	P	ECTS
1	ENVE xxxx	Elective – 1	3	0	8	1	ENVE 7000	Seminar	0	2	4
2	ENVE xxxx	Elective – 2	3	0	8	2	ENVE xxxx	Elective – 5	3	0	8
3	ENVE xxxx	Elective – 3	3	0	8	3	ENVE xxxx	Elective – 6	3	0	8
4	ENVE xxxx	Elective – 4	3	0	8	4	ENVE xxxx	Elective – 7	3	0	8
TOTAL			12	0	32	TOTAL			9	2	28

Scientific Prep.: 1. SEMESTER					
No	Code	Course Name	T	P	ECTS
1	ENVE 2001	Environmental Engineering Chemistry I	2	2	5
2	ENVE 3001	Environmental Engineering Unit Operations	3	2	5
3	ENVE 3003	Environmental Engineering Microbiology	2	2	4
4	ENVE 4011	Water Engineering Design	3	2	10

Scientific Prep.: 2. SEMESTER					
No	Code	Course Name	T	P	ECTS
1	ENVE 2002	Environmental Engineering Chemistry II	3	2	6
2	ENVE 2004	Engineering Hydraulics	3	2	6
3	ENVE 3002	Environmental Engineering Unit Processes	3	2	6
4	ENVE 4022	Wastewater Engineering Design	3	2	12

E1, E2, E3, E4: 1. semester / E5, E6, E7: 2. semester

No	Code	Course Name	T	P	ECTS
1	ENVE 7002	Reaction Kinetics and Mass Transfer	3	0	8
2	ENVE 7003	Fate of Pollutants in the Environment	3	0	8
3	ENVE 7009	Advanced Air Pollution	3	0	8
4	ENVE 7010	Computer Applications and Modeling in Environmental Engineering	3	0	8
5	ENVE 7012	Advanced Oxidation Processes	3	0	8
6	ENVE 7014	Soil and Groundwater Remediation	3	0	8
7	ENVE 7017	Water Reuse	3	0	8
8	ENVE 7019	Advanced Wastewater Treatment	3	0	8
9	ENVE 7021	Micropollutants	3	0	8
10	ENVE 7023	Industrial Waste Treatment	3	0	8
11	ENVE 7024	Advanced Topics in Biological Treatment	3	0	8
12	ENVE 7025	Environmental Biotechnology	3	0	8
13	ENVE 7026	Biological Nutrient Removal	3	0	8
14	ENVE 7027	Special Topics in Water Treatment	3	0	8
15	ENVE 7028	Water Chemistry	3	0	8
16	ENVE 7029	Special Topics in Wastewater Treatment	3	0	8
17	ENVE 7031	Special Topics in Air Pollution	3	0	8
18	ENVE 7033	Special Topics in Environmental Engineering	3	0	8
19	ENVE 7035	Formation and Control of Disinfection By-Products	3	0	8
20	ENVE 7036	Ion Exchange and Membrane Processes in Environmental Engineering	3	0	8

E1, E2, E3, E4: 1. semester / E5, E6, E7: 2. semester

No	Code	Course Name	T	P	ECTS
21	ENVE 7037	Anaerobic Biotechnology for Bio-energy Production	3	0	8
22	ENVE 7038	Sampling and Analyses of Air Pollutants	3	0	8
23	ENVE 7039	Atmospheric Deposition of Air Pollutants	3	0	8
24	ENVE 7040	Novel Sludge Treatment and Removal Techniques	3	0	8
25	ENVE 7041	Biological Wastewater Treatment	3	0	8
26	ENVE 7042	Process Design and Wastewater Engineering	3	0	8
27	ENVE 7045	Open Channel Hydraulics	3	0	8
28	ENVE 7053	Principles of Unit Processes in Environmental Engineering	3	0	8
29	ENVE 7054	Principles of Environmental Engineering Unit Operations	3	0	8
30	ENVE 7055	Principles of Water Engineering Design	3	0	8
31	ENVE 7056	Principles of Wastewater Engineering Design	3	0	8
32	ENVE 7057	Principles of Environmental Engineering Microbiology	3	0	8
33	ENVE 7058	Environmental Engineering Fluid Mechanics	3	0	8
34	ENVE 7059	Principles of Environmental Engineering Chemistry I	3	0	8
35	ENVE 7060	Principles of Environmental Engineering Chemistry II	3	0	8
36	ENVE 7061	Environmental Engineering Hydraulics	3	0	8
37	ENVE 7062	Environmental Nanotechnology	3	0	8
38	ENVE 7063	Integrated Water Resources Management	3	0	8

- Course work: Requires a minimum of 7 courses each of 8 ECTS, and a seminar course of 4 ECTS. In total 60 ECTS credits should be completed. All courses are elective.
- For further information please visit http://dosya.marmara.edu.tr/eng/enve/Lisansüstü/Graduate_Degrees.pdf