



Bachelor's Degree in Environmental Engineering

Faculty Of Engineering

HOME

INFORMATION ON
ECTS / DS & LLP

INFORMATION ON
DEGREE PROGRAMS

INFORMATION ON
THE INSTITUTION

GENERAL INFORMATION
FOR STUDENTS

Course Structure Diagram

First Semester		Theo.	Prac	Credits	ECTS
<u>PHYS 103</u>	GENERAL PHYSICS I	3	2	4	7
<u>MATH 113</u>	CALCULUS I	4	2	5	7
<u>ENVE 111</u>	BASIC COMPUTER SOFTWARES FOR ENVIRONMENTAL ENGINEERS	0	2	0	2
<u>ENVE 100</u>	INTRODUCTION TO ENGINEERING DESIGN	0	2	1	1
<u>CHEM 107</u>	GENERAL CHEMISTRY	3	2	4	7
<u>CENG 103</u>	FUNDAMENTALS OF COMPUTER PROGRAMMING I	3	2	4	6
		13	12	18	30

Second Semester		Theo.	Prac	Credits	ECTS
<u>PHYS 104</u>	GENERAL PHYSICS II	3	2	4	7
<u>MATH 114</u>	CALCULUS II	4	0	4	7
<u>ENVE 104</u>	STATICS	2	0	2	4
<u>ENVE 101</u>	INTRODUCTION TO ENVIRONMENTAL ENGINEERING	3	0	3	4
<u>ENGR 104</u>	ENGINEERING GRAPHICS	2	2	3	5
		14	4	16	27

Third Semester		Theo.	Prac	Credits	ECTS
<u>TURK 101</u>	TURKISH LANGUAGE I	2	0	2	2
<u>MATH 123</u>	LINEAR ALGEBRA	3	0	3	5
<u>ENVE 206</u>	ENVIRONMENTAL MICROBIOLOGY	2	2	3	6
<u>ENVE 205</u>	ENGINEERING THERMODYNAMICS	2	0	2	5
<u>ENVE 203</u>	ENVIRONMENTAL CHEMISTRY I	2	2	3	5
<u>APHR 101</u>	ATATURK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION I	2	0	2	2
XXX xxx	NON-TECHNICAL ELECTIVE I	3	0	3	5
		16	4	18	30

Fourth Semester		Theo.	Prac	Credits	ECTS
<u>TURK 102</u>	TURKISH LANGUAGE II	2	0	2	2
<u>MATH 271</u>	DIFFERENTIAL EQUATIONS	3	0	3	5
<u>ENVE 212</u>	ENVIRONMENTAL ECOLOGY	3	0	3	5
<u>ENVE 210</u>	MATERIALS SCIENCE IN ENVIRONMENTAL ENGINEERING	3	0	3	5
<u>ENVE 204</u>	ENVIRONMENTAL CHEMISTRY II	2	2	3	5
<u>ENVE 200</u>	SEMINAR AND TECHNICAL TRIP	0	2	1	1
<u>APHR 102</u>	ATATURK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION II	2	0	2	2
XXX xxx	NON-TECHNICAL ELECTIVE II	3	0	3	5
		18	4	20	30

Fifth Semester		Theo.	Prac	Credits	ECTS
<u>ENVE 325</u>	OCCUPATIONAL HEALTH AND SAFETY	3	0	3	5
<u>ENVE 317</u>	FLUID MECHANICS	3	0	3	5
<u>ENVE 315</u>	HYDROLOGY	2	0	2	3
<u>ENVE 307</u>	AIR POLLUTION	3	0	3	5
<u>ENVE 303</u>	UNIT OPERATIONS AND PROCESSES OF WATER TREATMENT I	3	0	3	5
<u>ENVE 301</u>	BIOLOGICAL PROCESSES	3	0	3	5
<u>ENVE 299</u>	INDUSTRIAL TRAINING I	0	0	0	2
		17	0	17	30

Sixth Semester		Theo.	Prac	Credits	ECTS
<u>MATH 348</u>	INTRODUCTION TO PROBABILITY AND STATISTICS	3	0	3	5
<u>ENVE 350</u>	SUSTAINABLE ENERGY MANAGEMENT	3	0	3	5
<u>ENVE 344</u>	SOLID WASTE MANAGEMENT	3	0	3	5
<u>ENVE 312</u>	WATER SUPPLY AND SEWERAGE	3	0	3	5
<u>ENVE 304</u>	UNIT OPERATIONS AND PROCESSES OF WASTE WATER TREATMENT II	3	0	3	5
<u>ECON 388</u>	ENGINEERING ECONOMICS	3	0	3	5
		18	0	18	30

Seventh Semester		Theo.	Prac	Credits	ECTS
<u>ENVE 497</u>	SENIOR PROJECT I	0	2	1	3
<u>ENVE 409</u>	WASTEWATER TREATMENT	3	0	3	5

<u>ENVE 399</u>	INDUSTRIAL TRAINING II	0	0	0	2
ENVE xxx	TECHNICAL ELECTIVE I	3	0	3	5
ENVE xxx	TECHNICAL ELECTIVE II	3	0	3	5
XXX xxx	TECHNICAL ELECTIVE III	3	0	3	5
XXX xxx	TECHNICAL ELECTIVE IV	3	0	3	5
		15	2	16	30

Eight Semester		Theo.	Prac	Credits	ECTS
<u>ENVE 498</u>	SENIOR PROJECT II	0	4	2	5
XXX xxx	NON-TECHNICAL ELECTIVE IV	3	0	3	5
ENVE xxx	TECHNICAL ELECTIVE V	3	0	3	5
ENVE xxx	TECHNICAL ELECTIVE VI	3	0	3	5
XXX xxx	TECHNICAL ELECTIVE VII	3	0	3	5
XXX xxx	TECHNICAL ELECTIVE VIII	3	0	3	5
		15	4	17	30

At least 4 of the technical electives must be selected from the technical elective courses offered by the Environmental Engineering Department. Any courses of Engineering Faculty and courses from Biology, Chemistry, Geology, Mathematics and Physics Departments of Faculty of Art and Science can be chosen as Technical Electives with the consent of the advisor.

Total Credits Required in Degree Program: 139

Total ECTS Credits: 240

Total Credits Required in Degree Program: 140 / Total ECTS Credits: 237

INFORMATION: All of the following elective courses aren't opened each semester. Please take information about potential open courses from the head of department.

Elective Courses

TECHNICAL ELECTIVES (3+0) 3		Theo.	Prac	Credits	ECTS
<u>ENVE 402</u>	ENVIRONMENTAL BIOTECHNOLOGY	3	0	3	5
<u>ENVE 403</u>	ENVIRONMENTAL MODELLING	3	0	3	5
<u>ENVE 404</u>	ENVIRONMENTAL SCIENCE	3	0	3	5
<u>ENVE 407</u>	AIR POLLUTION CONTROL	3	0	3	5
<u>ENVE 408</u>	MARINE POLLUTION	3	0	3	5
<u>ENVE 411</u>	ENERGY AND ENVIRONMENT	3	0	3	5
<u>ENVE 415</u>	SOIL MECHANICS	2	2	3	5
<u>ENVE 416</u>	EARTH REINFORCEMENT	2	2	3	5
<u>ENVE 417</u>	ENVIRONMENTAL LAW	3	0	3	5
<u>ENVE 420</u>	ENGINEERING ETHICS	3	0	3	5
<u>ENVE 422</u>	NOISE POLLUTION AND CONTROL	3	0	3	5
<u>ENVE 424</u>	LANDFILL DESIGN	3	0	3	5
<u>ENVE 426</u>	INNOVATIVE TECHNIQUES IN SOLID WASTE TREATMENT	3	0	3	5
<u>ENVE 427</u>	ENVIRONMENTAL TOXICOLOGY	3	0	3	5
<u>ENVE 428</u>	RESOURCE RECOVERY AND RECYCLING	3	0	3	5
<u>ENVE 429</u>	SOIL POLLUTION AND REMEDIATION	3	0	3	5
<u>ENVE 430</u>	ENVIRONMENTAL POLICIES IN THE EU AND TURKEY	3	0	3	5
<u>ENVE 431</u>	ENVIRONMENTAL PLANNING AND MANAGEMENT	3	0	3	5
<u>ENVE 432</u>	ENVIRONMENTAL IMPACT ASSESSMENT	3	0	3	5
ENVE 433	ALTERNATIVE ENERGY RESOURCES FOR BUILDINGS	3	0	3	5
<u>ENVE 441</u>	PROJECT MANAGEMENT IN ENVIRONMENTAL ENGINEERING	3	0	3	5
<u>ENVE 450</u>	ENVIRONMENTAL SAMPLING AND ANALYSIS	2	2	3	5
<u>ENVE 451</u>	ENVIRONMENTAL DATA ANALYSIS	2	2	3	5
<u>ENVE 452</u>	INDOOR AIR QUALITY	3	0	3	6
<u>CENG 203</u>	DIGITAL SYSTEMS	3	2	4	6
<u>CENG 217</u>	OBJECT ORIENTED PROGRAMMING	3	0	3	7
<u>BIOL 107</u>	ESSENTIALS OF BIOLOGY	3	0	3	5
<u>GEO 101</u>	INTRODUCTION TO GEOGRAPHY	3	0	3	6
<u>GEO 103</u>	WORLD REGIONAL GEOGRAPHY I	3	0	3	5
<u>GEO 181</u>	CARTOGRAPHY	3	0	3	4
<u>GEO 201</u>	GEOGRAPHY OF TURKEY I	3	0	3	5
<u>GEO 221</u>	GEOMORPHOLOGY	3	0	3	4
<u>GEO 271</u>	POLITICAL GEOGRAPHY	3	0	3	5
<u>GEO 281</u>	FUNDAMENTALS OF GEOGRAPHIC INFORMATION SYSTEMS	3	0	3	6
<u>GEO 311</u>	INTERNSHIP IN GEOGRAPHY I	0	2	1	5
<u>GEO 321</u>	BIOGEOGRAPHY	3	0	3	5
<u>GEO 322</u>	NATURAL HAZARDS	3	0	3	4
<u>GEO 323</u>	WEATHER AND CLIMATE	3	0	3	6
<u>GEO 324</u>	HYDROLOGY	3	0	3	4
<u>GEO 346</u>	GEOMORPHOLOGY OF TURKEY	3	0	3	5
<u>GEO 352</u>	LAND USE PLANNING	3	0	3	4
<u>GEO 362</u>	TOURISM GEOGRAPHY	3	0	3	3
<u>GEO 471</u>	URBAN GIS	3	0	3	5
<u>GEO 472</u>	GLOBALIZATION	3	0	3	5
<u>GEO 490</u>	CARTOGRAPHIC DESIGN AND VISUALIZATION	3	0	3	5
GEO 494	FIELD STUDIES IN GEOGRAPHY IV	3	0	3	5
ENGR 442	OCCUPATIONAL HEALTH AND SAFETY	3	0	3	5
<u>ENGR 444</u>	ENGINEERING ETHICS	3	0	3	5

ENGR 446	INNOVATION AND ENTREPRENEURSHIP	3	0	3	5
<u>IE 230</u>	APPLIED STATISTICS FOR INDUSTRIAL ENGINEERS	3	0	3	5
<u>IE 325</u>	COST ANALYSIS AND CONTROL	3	0	3	5
<u>IE 341</u>	DATABASE MANAGEMENT IN INDUSTRIAL ENGINEERING	2	2	3	6
<u>IE 344</u>	QUALITY CONTROL	3	0	3	5
<u>IE 347</u>	PROJECT MANAGEMENT	3	0	3	5
<u>IE 361</u>	FACILITIES LOCATION AND DESIGN	3	0	3	5
<u>IE 418</u>	INNOVATION AND ENTREPRENEURSHIP	2	2	3	5
<u>IE 420</u>	USABILITY ENGINEERING	3	0	3	5
<u>IE 455</u>	APPLIED OPTIMIZATION	3	0	3	5
<u>IE 470</u>	SUPPLY CHAIN AND LOGISTICS MANAGEMENT	3	0	3	5
<u>IE 473</u>	ENTERPRISE RESOURCE PLANNING	3	0	3	5
<u>IE 476</u>	MODELING AND ANALYSIS OF MANUFACTURING SYSTEMS	3	0	3	5
<u>PHYS 426</u>	MAGNETIC PROPERTIES OF SOLIDS	3	0	3	6
<u>GBE 102</u>	INT. TO GENETICS AND BIOENGINEERING	1	0	1	2
<u>GBE 201</u>	BIOMECHANICS	3	0	3	5
<u>GBE 204</u>	MICROBIAL BIOTECHNOLOGY	3	2	4	5
<u>GBE 208</u>	HUMAN PHYSIOLOGY	3	0	3	5
<u>GBE 306</u>	BIOFLUID MECHANICS	3	0	3	5
<u>CE 202</u>	CONSTRUCTION MATERIALS	3	0	3	4
<u>CE 204</u>	STRENGTH OF MATERIALS II	2	2	3	6
<u>CE 206</u>	FLUID MECHANICS	3	0	3	4
<u>CE 208</u>	ENGINEERING GEOLOGY	2	0	2	4
<u>CHEM 206</u>	PHYSICAL CHEMISTRY I	4	0	4	6
<u>CHEM 208</u>	ORGANIC CHEMISTRY I	4	0	4	6
<u>CHEM 402</u>	RESEARCH PROJECT	3	0	3	6
<u>CHEM 407</u>	MODERN SPECTROSCOPY	3	0	3	5
<u>CHEM 410</u>	SEPARATION TECHNIQUES	3	0	3	6
<u>CHEM 414</u>	POLYMER CHEMISTRY	3	0	3	5
<u>CHEM 415</u>	ORGANIC REACTION MECHANISM	3	0	3	5
<u>MATH 103</u>	CALCULUS FOR SOCIAL SCIENCES I	3	0	3	8
<u>MATH 106</u>	BASIC CALCULUS FOR SOCIAL SCIENCES	3	0	3	6
<u>MATH 151</u>	ABSTRACT MATHEMATICS	3	0	3	7
<u>MATH 281</u>	PROBABILITY & STATISTICS	3	0	3	5
<u>MATH 301</u>	COMPLEX ANALYSIS I	3	0	3	7
<u>MATH 331</u>	ABSTRACT ALGEBRA I	3	0	3	8
<u>MATH 371</u>	INTRODUCTION TO PDES	3	0	3	5
<u>MATH 375</u>	NUMERICAL ANALYSIS I	3	0	3	5
<u>MATH 401</u>	REAL ANALYSIS	3	0	3	10
<u>MATH 424</u>	RINGS AND MODULES	3	0	3	5
<u>MATH 461</u>	GENERAL TOPOLOGY	3	0	3	10
<u>MATH 480</u>	GENERAL MATHEMATICAL CONCEPTS AND METHODS	3	0	3	5
<u>MATH 489</u>	COMPUTATIONAL MATHEMATICS	3	0	3	5

NON-AREA TECHNICAL ELECTIVES (3+0) 3		Theo.	Prac	Credits	ECTS
<u>APHR 305</u>	OSMANLI DÖNEMİNDE ERMENİLER	3	0	3	5
<u>APHR 306</u>	CUMHURİYET DÖNEMİNDE ERMENİLER	3	0	3	5
<u>APHR 411</u>	CUMHURİYET DÖNEMİ ÇAĞDAŞLAŞMA HAREKETLERİ	3	0	3	5
<u>APHR 412</u>	ATATÜRK DÖNEMİ TOPLUMSAL DEĞİŞİM VE GÜNDELİK HAYAT	3	0	3	5
<u>CENG 102</u>	BILGISAYAR PROGRAMLAMA II	4	4	6	8
<u>CENG 209</u>	SOSYAL BİLİMLER İÇİN WEB SAYFASI TASARIMI	2	2	3	5
<u>BIOL 201</u>	GENEL MİKROBİYOLOJİ I	3	0	3	8
<u>BIOL 204</u>	HÜCRE BİYOLOJİSİ	3	0	3	4
<u>BIOL 301</u>	GENETİK	3	0	3	5
<u>GEO 104</u>	WORLD REGIONAL GEOGRAPHY II	3	0	3	4
<u>GEO 391</u>	ADVANCED GIS	3	0	3	5
<u>GEO 496</u>	TOPICS IN GIS AND RS	3	0	3	5
<u>IE 218</u>	YÖNEYLEM ARAŞTIRMASI II	3	1	3	7
<u>IE 321</u>	PRODUCTION PLANNING AND CONTROL I	3	0	3	6
<u>IE 322</u>	PRODUCTION PLANNING AND CONTROL II	3	0	3	5
<u>IE 430</u>	TOPLAM KALİTE YÖNETİMİ	3	0	3	5
<u>ARB 201</u>	ARABIC LANGUAGE I	3	0	3	5
<u>ARB 202</u>	ARABIC LANGUAGE II	3	0	3	5
<u>CHN 201</u>	ÇİN DİLİ I	3	0	3	5
<u>FRE 201</u>	FRANSIZ DİLİ I	3	0	3	5
<u>FRE 202</u>	FRANSIZ DİLİ II	3	0	3	5
<u>GER 201</u>	ALMAN DİLİ I	3	0	3	5
<u>GER 202</u>	ALMAN DİLİ II	3	0	3	5
<u>GER 301</u>	ALMAN DİLİ III	3	0	3	5
<u>JPN 201</u>	JAPANESE LANGUAGE I	3	0	3	5
<u>JPN 202</u>	JAPANESE LANGUAGE II	3	0	3	5
<u>PRS 201</u>	FARS DİLİ I	3	0	3	5
<u>PRS 202</u>	FARS DİLİ II	3	0	3	5
<u>RUS 201</u>	RUS DİLİ I	3	0	3	5
<u>RUS 202</u>	RUS DİLİ II	3	0	3	5

<u>SPN 201</u>	İSPANYOL DİLİ I	3	0	3	5
<u>SPN 202</u>	SPANISH LANGUAGE II	3	0	3	5
<u>PHIL 208</u>	ESTETİK	3	0	3	5
<u>PHIL 312</u>	BİLİM TARİHİ II	3	0	3	5
<u>ENG 495</u>	İŞ DÜNYASI İLETİŞİMİ I	3	0	3	5
<u>ECON 101</u>	MİKROEKONOMİYE GİRİŞ	3	0	3	5
<u>ECON 102</u>	İKTİSADA GİRİŞ II	3	0	3	5
<u>ECON 203</u>	İSTATİSTİĞE GİRİŞ I	3	0	3	4
<u>ECON 311</u>	ULUSLAR ARASI TİCARET	3	0	3	6
<u>ECON 373</u>	ÇEVRE EKONOMİSİ	3	0	3	5
<u>MAN 101</u>	INTRODUCTION TO BUSINESS	3	0	3	8
<u>MAN 102</u>	YÖNETİMİN TEMEL KAVRAMLARI II	3	0	3	5
<u>MAN 209</u>	PAZARLAMA İLKELERİ	3	0	3	5
<u>MAN 232</u>	İŞ İLETİŞİMİ İNGİLİZCESİ II	3	0	3	5
<u>MAN 314</u>	İNSAN KAYNAKLARI YÖNETİMİ	3	0	3	5
<u>MAN 324</u>	TÜKETİCİ DAVRANIŞI	3	0	3	6
<u>MAN 401</u>	STRATEJİK YÖNETİM	3	0	3	5
<u>MAN 407</u>	YÖNETİM BİLİŞİMLERİ SİSTEMLERİ	3	0	3	6
<u>MAN 432</u>	İŞLETME POLİTİKASI	3	0	3	6
<u>CHEM 310</u>	POLİMER KİMYASINA GİRİŞ	3	0	3	5
<u>CHEM 420</u>	ÇEVRE KİMYASI	3	0	3	4
<u>CHEM 423</u>	ENSTRÜMENTAL ANALİZ	3	0	3	5
<u>PSY 101</u>	PSİKOLOJİYE GİRİŞ I	4	0	4	4
<u>PSY 122</u>	SOSYAL PSİKOLOJİ	3	0	3	6
<u>POLS 105</u>	SİYASET BİLİMİNE GİRİŞ I	3	0	3	7
<u>POLS 106</u>	SİYASET BİLİMİNE GİRİŞ II	3	0	3	7
<u>POLS 250</u>	TOPLUMSAL DUYARLILIK PROJELERİ	3	0	3	7
<u>POLS 274</u>	TÜRKİYE'NİN SİYASAL YAPISI	3	0	3	6
<u>POLS 411</u>	KENTLEŞME VE ÇEVRE	3	0	3	7
<u>POLS 454</u>	İNSAN HAKLARI	3	0	3	7
<u>SOC 101</u>	SOSYOLOJİYE GİRİŞ	3	0	3	6
<u>SOC 103</u>	ARAŞTIRMA YÖNTEMLERİ I	3	0	3	7
<u>SOC 108</u>	SOSYAL VE KÜLTÜREL ANTROPOLOJİ	4	0	4	5
<u>SOC 320</u>	SOSYAL BİLİMLERDE VERİ ANALİZİ (SPSS)	3	0	3	5
<u>HIST 105</u>	İSLAM TARİHİ I	3	0	3	5
<u>HIST 240</u>	AMERICAN HISTORY SINCE 1877	3	0	3	5
<u>HIST 326</u>	EARLY MODERN TURKISH STATES	3	0	3	5
<u>HIST 388</u>	TÜRK KÜLTÜRÜ VE TARİHİ	3	0	3	5
<u>HIST 426</u>	HISTORY OF THE FAR EAST	3	0	3	5
<u>TDE 210</u>	AŞIK EDEBİYATI	3	0	3	4
<u>TDE 213</u>	TİYATRO I	3	0	3	8
<u>TDE 218</u>	GÜZEL KONUŞMA YAZMA SANATI	3	0	3	7
<u>TDE 416</u>	ÇOCUK EDEBİYATI	3	0	3	4
<u>INT 108</u>	INTRODUCTION TO EUROPEAN UNION	3	0	3	6
<u>INT 211</u>	SİYASAL TARİH I	3	0	3	6
<u>INT 212</u>	SİYASAL TARİH II	3	0	3	7
<u>INT 256</u>	GELİŞMEKTE OLAN ÜLKELERDE SİYASET	3	0	3	5
<u>INT 258</u>	ULUSLARARASI BAĞLAMDA TERÖR VE ŞİDDET	3	0	3	5
<u>INT 313</u>	ULUSLARARASI ÖRGÜTLER	3	0	3	4
<u>INT 352</u>	İLETİŞİM VE ULUSLARARASI SİYASET	3	0	3	5