

DEPARTMENT OF CIVIL ENGINEERING
DOUBLE MAJOR PROGRAM FOR STUDENTS FROM ENERGY SYSTEMS ENGINEERING PROGRAM
UNDERGRADUATE CURRICULUM

Civil Engineering Program			Equivalent Course from Energy Systems Engineering		
1st Term			1st Term		
Course Code	Course Name	(T-U)A	Course Code	Course Name	(T-U)A
KRY111	Career Planning	(1-0)1	KRY111	Career Planning	(1-0)1
MATH151	Calculus I	(4-2)7	MATH151	Calculus I	(4-2)7
PHYS101	General Physics I	(3-2)6	PHYS101	General Physics I	(3-2)6
ENG101	English For Academic Purposes I	(4-0)3.5	ENG101	English For Academic Purposes I	(4-0)3.5
CE101	Engineering Fundamentals	(1-0)2.5			
CHE105	General Chemistry	(3-2)5	CHE105	General Chemistry	(3-2)5
HIST111	Principles of Atatürk and History of Turkish Revolution I (in English)	(2-0)2	HIST111	Principles of Atatürk and History of Turkish Revolution I (in English)	(2-0)2
CMPE102	Computer Programming	(2-2)4	CMPE102	Computer Programming	(2-2)4
	Total Credit	31			
2nd Term			2nd Term		
Course Code	Course Name	(T-U)A	Course Code	Course Name	(T-U)A
MATH152	Calculus II	(4-2)7	MATH152	Calculus II	(4-2)7
PHYS102	General Physics II	(3-2)6	PHYS102	General Physics II	(3-2)6
CE-GE1SP1	General Elective	(3-0)4		General Elective	(3-0)4
ENG102	English for Academic Purposes II	(4-0)3.5	ENG102	English for Academic Purposes II	(4-0)3.5
HIST112	Principles of Atatürk and History of Turkish Revolution II (in English)	(2-0)2	HIST112	Principles of Atatürk and History of Turkish Revolution II (in English)	(2-0)2
HIST221	History of Civilization	(3-0)3	HIST221	History of Civilization	(3-0)3
CE110	Engineering Graphics and Design	(1-3)4.5	ME108	Computer Aided Solid Modeling	(1-3)4.5
	Total Credit	30			

3 rd Term			3 rd Term		
Course Code	Course Name	(T-U)A	Course Code	Course Name	(T-U)A
MATH275	Linear Algebra	(4-0)6	MATH275	Linear Algebra	(4-0)6
ENG201	English for Academic Purposes III	(3-0)3	ENG201	English for Academic Purposes III	(3-0)3
CE201	Basic Mechanics I-Statics	(4-0)7	ME211	Statics and Strength of Materials	(3-1)6
MATE207	Introduction to Materials Engineering	(3-0)5	MATE207	Introduction to Materials Engineering	(3-0)5
CE-GE2FA1	General Elective	(3-0)4		General Elective	(3-0)4
IE220	Probability and Statistics for Engineers	(3-0)5	IE220	Probability and Statistics for Engineers	(3-0)5
	Total Credit	30			
4 th Term			4 th Term		
Course Code	Course Name	(T-U)A	Course Code	Course Name	(T-U)A
CE202	Basic Mechanics II-Dynamics	(3-0)5	MECE204	Dynamics	(2-2)6
CE210	Civil Engineering Materials	(3-2)6			
MATH276	Differential Equations	(4-0)6	MATH276	Differential Equations	(4-0)6
ENG202	English for Academic Purposes IV	(3-0)3	ENG202	English for Academic Purposes IV	(3-0)3
CE204	Mechanics of Materials	(3-0)5			
MATH380	Numerical Methods for Engineers	(3-1)5			
	Total Credit	30			
5 th Term			5 th Term		
Course Code	Course Name	(T-U)A	Course Code	Course Name	(T-U)A
ENG301	English for Occupational Purposes I	(3-0)3	ENG301	English for Occupational Purposes I	(3-0)3
CE321	Structural Analysis	(3-0)5			
CE335	Transportation Engineering	(3-0)5			
CE307	Fluid Mechanics	(3-2)5.5	AE307	Fluid Mechanics	(3-1)6
CE309	Geology and Surveying	(2-2)6			
CE311	Soil Mechanics	(3-2)5.5			
CE399	Summer Practice I*	(0-0)10	ENE399	Summer Practice I*	(0-0)10
	Total Credit	30			

6 th Term			6 th Term		
Course Code	Course Name	(T-U)A	Course Code	Course Name	(T-U)A
ENG302	English for Occupational Purposes II	(3-0)3	ENG302	English for Occupational Purposes II	(3-0)3
IE305	Engineering Economy	(2-0)5	IE305	Engineering Economy	(2-0)5
CE310	Hydraulic Engineering	(3-0)5.5			
CE344	Fundamentals of Steel Design	(3-0)5.5			
CE328	Foundation Engineering	(3-0)5.5			
CE342	Reinforced Concrete Fundamentals	(3-0)5.5			
	Total Credit	30			
7 th Term			7 th Term		
Course Code	Course Name	(T-U)A	Course Code	Course Name	(T-U)A
TURK401	Turkish Language I	(2-0)2	TURK401	Turkish Language I	(2-0)2
CE499	Summer Practice II*	(0-0)10	ENE499	Summer Practice II*	(0-0)10
CE-AE4FA1	Area Elective	(3-0)6		Area Elective**	(3-0)5
CE-AE4FA2	Area Elective	(3-0)6		Area Elective**	(3-0)5
CE-AE4FA3	Area Elective	(3-0)6			
CE-AE4FA4	Area Elective	(3-0)6			
CE-GE4FA1- Girişimcilik Havuzu	General Elective	(3-0)4	Girişimcilik Havuzu	General Elective	(3-0)4
	Total Credit	30			
8 th Term			8 th Term		
Course Code	Course Name	(T-U)A	Course Code	Course Name	(T-U)A
TURK402	Turkish Language II	(2-0)2	TURK402	Turkish Language II	(2-0)2
CE450	Civil Engineering Seminars	(0+2)2			
CE402	Hydrology and Water Resources	(3+0)5.5			
CE490	Civil Engineering Design Project	(1+4)9			
CE430	Construction Engineering and Management	(3+0)5.5			
CE-AE4SP1	Area Elective	(3-0)6			
	Total Credit	30			

NOTES:

1- * Summer Practices: First summer practice must be taken from Energy Systems Engineering Department and the second summer practice from Civil Engineering Department.

2-**Area Electives: If the students' advisor in the Civil Engineering Department and the department head approves, at most two area electives that are taken from the Energy Systems Engineering Department can be considered as equivalent in the Civil Engineering program.

3-General Electives: General electives are the same for both departments.

4-The courses listed as bold fonts are the ones that should be taken.

Total Courses	20+ Summer Practice II+(1 or 2 Area elective in Note 2, if these area electives from ENE are not considered as equivalent in CE)
Total ECTS	107+10+(6+6)