

Civil Engineering Double Major Program for Department of Geomatics Engineering

	Prerequisite	COURSE C.	COURSE NAME	Taken from	Compulsory or elective	T	A	L	ECTS	
1 st YEAR FALL		ATA101	Principles of Atatürk & Hist. of the Turkish Rev. I	Major	Compulsory	2	0		2	
		CHE101	Chemistry for Engineers	Major	Compulsory	2	0	2	7	
		ENG110	English I	Major	Compulsory	2	0		3	
		MAT101	Calculus I	Major	Compulsory	3	2		7	
		PHY101	Physics I	Major	Compulsory	3	0	2	7	
		TDE101	Turkish Language I	Major	Compulsory	2	0		2	
		CE101	Introduction to Civil Engineering	Double Major	Compulsory	2			2	
		TOTAL SEMESTER ECTS					16	2	4	30
1 st YEAR SPRING		ATA102	Principles of Atatürk & Hist. of the Turkish Rev. II	Major	Compulsory	2	0		2	
		ENG111	English II	Major	Compulsory	2	0		3	
	MAT101	MAT102	Calculus II	Major	Compulsory	3	2		7	
		CE106	Computer Aided Engineering Drawing	Double Major	Compulsory	2	2		5	
		PHY102	Physics II	Major	Compulsory	3	0	2	7	
		TDE102	Turkish Language II	Major	Compulsory	2	0		2	
		GE102	Fundamentals of Surveying	Major	Compulsory	3	1		6	
		TOTAL SEMESTER ECTS					17	5	2	32
2 nd YEAR FALL		COE201	Computer Programming and Applications	Major	Compulsory	2	2		4	
	MAT101	MAT205	Differential Equations	Major	Compulsory	4	0		6	
		MAT208	Applied Linear Algebra	Major	Compulsory	3	0		5	
		CE241	Materials Science	Double Major	Compulsory	3	0		4	
	MAT101	CE221	Statics	Double Major	Compulsory	3			5	
		OPR201	Probability and Statistics for Engineers	Major	Compulsory	3	0		5	
		IKC-SC	University Elective Courses I	Major	Elective	2	0		3	
		TOTAL SEMESTER ECTS					20	2	0	32
2 nd YEAR SPRING		GE209	Topographic Mapping	Major	Compulsory	3	5		4	
	CE221	CE222	Strength Of Materials	Double Major	Compulsory	3	2		7	
	MAT101	CE250	Fluid Mechanics	Double Major	Compulsory	3			5	
	MAT101	CE224	Dynamics	Double Major	Compulsory	3			5	
	MAT101	MAT210	Numerical Methods and Applications	Double Major	Compulsory	2		1	5	
		IKC-SC	University Elective Courses II	Major	Elective		0		3	
		TOTAL SEMESTER ECTS					14	7	1	29
3 rd YEAR FALL	CE250	CE351	Hydraulics	Double Major	Compulsory	3	0	2	5	
	CE222	CE391	Structural Mechanics and Analysis	Double Major	Compulsory	3	1		5	
		CE371	Soil Mechanics	Double Major	Compulsory	3	0	2	5	
	CE222	CE393	Design of Steel Structures	Double Major	Compulsory	3	0		4	
	CE241	CE341	Materials of Construction	Double Major	Compulsory	2	0	2	5	
		IKC-SC	University Elective Courses III	Major	Elective		0		3	
		CE301	Summer Practice in Civil Engineering I	Double Major	Compulsory	0	2		3	
		TOTAL SEMESTER ECTS					14	3	6	30
3 rd YEAR SPRING		CE330	Introduction to Transportation Engineering	Double Major	Compulsory	3	1		5	
		CE310	Introduction to Engineering Economy	Double Major	Compulsory	3	0		4	
	CE371	CE372	Introduction to Foundation Engineering	Double Major	Compulsory	3	0		4	
	CE351	CE380	Hydrology and Water Resources Engineering	Double Major	Compulsory	3	1		5	
	CE222	CE394	Design of Reinforced Concrete Members	Double Major	Compulsory	3	0	1	6	
		IKC-SC	University Elective Courses IV	Major	Elective	2	0		3	
		TOTAL SEMESTER ECTS					17	2	1	27
4 th YEAR FALL		ES411	Occupational Health and Safety I	Major	Compulsory	2	0		3	
		ENG4XX	Interdisciplinary Technical Elective Courses	Major or Double Major	Elective	0	2		6	
		GE4XX-A	Technical Elective	Major	Elective	3	0		6	
		CE4XX	Technical Elective	Double Major	Elective	3	0		6	
		CE4XX	Technical Elective	Double Major	Elective	3			6	
		CE401	Summer Practice in Civil Engineering II	Double Major	Compulsory	0	2	0	3	
		TOTAL SEMESTER ECTS					11	4		30
4 th YEAR SPRING		ES412	Occupational Health and Safety II	Major	Compulsory	2	0		3	
		CE4XX	Technical Elective	Double Major	Elective	3	0		6	
		BA306	Entrepreneurship and Small Business Development	Major	Compulsory	2			3	
		CE4XX	Technical Elective	Double Major	Elective	3	0		6	
		CE4XT	Design Practice Elective	Double Major	Elective	4		8	15	
		TOTAL SEMESTER ECTS					14	0	8	33
CUMULATIVE ECTS (26% Elective)									243	