

Civil Engineering Double Major Program for Department of Metallurgical and Material 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
		CE106	Computer Aided Engineering Drawing	Major	Compulsory	2	2		5
	MAT101	MAT102	Calculus II	Major	Compulsory	3	2		7
		MSE110	Computer Aided Engineering Graphics	Major	Compulsory	2	2		4
		PHY102	Physics II	Major	Compulsory	3	0	2	7
		TDE102	Turkish Language II	Major	Compulsory	2	0		2
		TOTAL SEMESTER ECTS				16	6	2	30
2 nd YEAR FALL		COE201	Computer Programming and Applications	Major	Compulsory	2	2		4
	MAT101	MAT205	Differential Equations	Major	Compulsory	4	0		6
		GEO201	Engineering Geology	Double Major	Compulsory	3			4
		CE201	Principles of Testing and Measurement	Double Major	Compulsory	2		1	3
		OPR201	Probability and Statistics for Engineers	Double Major	Compulsory	3	0		5
		MSE215	Materials Science I	Major	Compulsory	3	0		4
	MAT101	CE221	Statics	Double Major	Compulsory	3			5
		IKC-SC	University Elective Courses I	Major	Elective	2	0		3
		TOTAL SEMESTER ECTS				22	2	1	34
2 nd YEAR spring	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
		MAT208	Applied Linear Algebra	Double Major	Compulsory	3	0		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	2	1	30
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
	MSE215	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 th 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
		BA306	Entrepreneurship and Small Business Development	Double Major	Compulsory	2			3
		IKC-SC	University Elective Courses IV	Major	Elective		0		3
		TOTAL SEMESTER ECTS				17	2	1	30
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
		MSE4XX-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	Double 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)									247