

Civil Engineering Double Major Program for Department of Mechanical 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					14	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	
		ME112	Computer Aided Engineering Drawing I	Major	Compulsory	2	2		5	
		PHY102	Physics II	Major	Compulsory	3	0	2	7	
		TDE102	Turkish Language II	Major	Compulsory	2	0		2	
		ME122	Statics	Major	Compulsory	2	2		4	
	CEO108	C Programming	Major	Compulsory	2	2		4		
		TOTAL SEMESTER ECTS					16	6	2	34
2 nd YEAR FALL		GEO201	Engineering Geology	Double Major	Compulsory	3	0		4	
		CE201	Principles of Testing and Measurement	Double Major	Compulsory	2	0	1	3	
	MAT101	MAT205	Differential Equations	Major	Compulsory	4	0		6	
		MAT208	Applied Linear Algebra	Major	Compulsory	3	0		5	
		ME221	Materials Science & Engineering I	Major	Compulsory	3	0		4	
	ME122	ME261	Strength of Materials I	Major	Compulsory	3			4	
		OPR201	Probability and Statistics for Engineers	Major	Compulsory	3	0		5	
	IKC-SC	Non-Technical Elective I	Major	Elective	2	0		3		
		TOTAL SEMESTER ECTS					21			34
2 nd YEAR SPRING	MAT101	ME212	Dynamics	Major	Compulsory	3	0		4	
		ME232	Applied Mathematics for Engineers	Major	Compulsory	3			4	
	ME261	ME262	Strength of Materials II	Major	Compulsory	3			5	
		IKC-SC	Non-Technical Elective II	Major	Elective	2	0		3	
		IKC-SC	Non-Technical Elective III	Major	Elective	2	0		3	
		TOTAL SEMESTER ECTS					12			19
3 rd YEAR FALL		CE351	Hydraulics	Double Major	Compulsory	3	0	2	5	
	ME262	CE391	Structural Mechanics and Analysis	Double Major	Compulsory	3	1		5	
		CE371	Soil Mechanics	Double Major	Compulsory	3	0	2	5	
	ME262	CE393	Design of Steel Structures	Double Major	Compulsory	3	0		4	
	ME221	CE341	Materials of Construction	Double Major	Compulsory	2	0	2	5	
		ME321	Fluid Mechanics	Major	Compulsory	4			5	
	CE301	Summer Practice in Civil Engineering I	Double Major	Compulsory	0	2		3		
		TOTAL SEMESTER ECTS					20			32
3 rd YEAR SPRING		CE310	Introduction to Engineering Economy	Double Major	Compulsory	3	0	0	4	
		CE330	Introduction to Transportation Engineering	Double Major	Compulsory	3	1		5	
	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	
	ME262	CE394	Design of Reinforced Concrete Members	Double Major	Compulsory	3	0	1	6	
		ME341	Numerical Methods in Engineering	Major	Compulsory	3	1		4	
		IKC-SC	Non-Technical Elective IV	Major	Elective	2	0		3	
	BA306	Entrepreneurship and Small Business Development	Double Major	Compulsory	2			3		
		TOTAL SEMESTER ECTS								34
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	
		ME4X3	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					14	0		30
4 th YEAR SPRING		ES412	Occupational Health and Safety II	Major	Compulsory	2	0		3	
		ME4X3	Technical Elective	Major	Elective	3	0		6	
		CE4XX	Technical Elective	Double Major	Elective	3	0		6	
		CE4XT	Design Practice Elective	Double Major	Elective	4		8	15	
		TOTAL SEMESTER ECTS					14	0		30
CUMULATIVE ECTS (25.9% Elective)									243	