

Mechanical Engineering Double Major Program for Department of Civil Engineering

	Prerequisite	COURSE C.	COURSE NAME	Taken from	Compulsory or elective	T	A	L	ECTS
1 st YEAR FALL		CHE101	Chemistry for Engineers	Major	Compulsory	2	0	2	7
		MAT101	Calculus I	Major	Compulsory	3	2		7
		CE101	Introduction to Civil Engineering	Major	Compulsory	2	0		2
		PHY101	Physics I	Major	Compulsory	3	0	2	7
		ENG110	English I	Major	Compulsory	2	0		3
		ATA101	Principles of Atatürk & Hist. of the Turkish Rev. I	Major	Compulsory	2	0		2
		TDE101	Turkish Language I	Major	Compulsory	2	0		2
			TOTAL SEMESTER ECTS						30
1 st YEAR SPRING	MAT101	MAT102	Calculus II	Major	Compulsory	3	2		7
		CE106	Computer Aided Engineering Drawing	Major	Compulsory	2	2		5
		CE221	Statics	Major	Compulsory	3	0		5
		PHY102	Physics II	Major	Compulsory	3	0	2	7
		ENG111	English II	Major	Compulsory	2	0		3
		ATA102	Principles of Atatürk & Hist. of the Turkish Rev. II	Major	Compulsory	2	0		2
		TDE102	Turkish Language II	Major	Compulsory	2	0		2
			TOTAL SEMESTER ECTS						31
2 nd YEAR FALL		COE108	C Programming	Major	Compulsory	2	2		4
	MAT101	MAT205	Differential Equations	Major	Compulsory	4	0		6
		ME211	Computer Aided Eng Drawing II	Double Major	Compulsory	2	2		5
		CE241	Materials Science	Major	Compulsory	3	0		4
		ME241	Thermodynamics I	Double Major	Compulsory	3	0		4
	CE221	CE222	Strength of Materials	Major	Compulsory	3	2		7
			Non-Technical Elective I	Major	Elective	2	0		3
			TOTAL SEMESTER ECTS						33
2 nd YEAR SPRING	MAT101	CE224	Dynamics	Major	Compulsory	3	0		5
		ME222	Materials Science & Engineering II	Double Major	Compulsory	3	0		4
		MAT208	Applied Linear Algebra	Major	Compulsory	3	0		5
		ME242	Thermodynamics II	Double Major	Compulsory	3	0		4
	CE222	CE391	Structural Mechanics & Analysis	Major	Compulsory	3	1		5
		CE310	Introduction to Engineering Economy	Major	Compulsory	3	0		4
			Non-Technical Elective II	Major	Elective	2	0		3
			TOTAL SEMESTER ECTS						30
3 rd YEAR FALL		ME311	Machine Elements I	Double Major	Compulsory	2	2		5
	MAT101, MAT205	CE250	Fluid Mechanics	Major	Compulsory	3	0		5
		ME331	Theory of Mechanisms	Double Major	Compulsory	3	0		4
	MAT101	MAT210	Numerical Methods And Applications	Major	Compulsory	2	-	1	5
		ME351	Heat Transfer	Double Major	Compulsory	4	0		5
		ME361	Manufacturing Processes	Double Major	Compulsory	3	0		4
			Non-Technical Elective III	Major	Elective	2	0		3
			TOTAL SEMESTER ECTS						31
3 th YEAR SPRING		ME300	Summer Practice I	Double Major	Compulsory	0	2		5
		ME312	Machine Elements II	Double Major	Compulsory	2	2		4
		ME322	Thermal & Fluid Engineering	Double Major	Compulsory	2	2		4
		ME332	Dynamics of Machinery	Double Major	Compulsory	3	0		3
		ME362	Manufacturing Engineering	Double Major	Compulsory	3	0		4
		ME372	Mechanical Engineering Laboratory	Double Major	Compulsory	1	2		3
		ME382	System Analysis and Control	Double Major	Compulsory	4	0		4
			Non-Technical Elective IV	Major	Elective	2	0		3
		TOTAL SEMESTER ECTS						30	
4 th YEAR FALL		ME400	Summer Practice II	Double Major	Compulsory	0	2		5
		ES411	Occupational Health and Safety I	Major	Compulsory	2	0		3
		ENG4XX	Interdisciplinary Technical Elective Courses	Major or Double Major	Elective	0	2		6
		ME4XX	Departmental Elective (3 courses will be selected from ME4XX elective c.)	Double Major	Elective				18
			TOTAL SEMESTER ECTS						32
4 th YEAR SPRING		ME4DE2	Design Elective Course (Group B)	Double Major	Elective	2	3		8
		ES412	Occupational Health and Safety II	Major	Compulsory	2	0		3
		ME4XX	Departmental Elective (3 courses will be selected from ME4XX elective c.)	Double Major	Elective				18
			TOTAL SEMESTER ECTS						29
			CUMULATIVE ECTS						246