

Geomatics Engineering Double Major Program for Department of Civil Engineering									
	Prerequisite	COURSE C.	COURSE NAME	Taken from	Mandatory or Elective	T	A	L	ECTS
1 st YEAR FALL		CHE101	Chemistry for Engineers	Major	Mandatory	2	0	2	7
		MAT101	Calculus I	Major	Mandatory	3	2	0	7
		GE101	Introduction to Geomatics Engineering	Double Major	Mandatory	2	0	0	2
		PHY101	Physics I	Major	Mandatory	3	0	2	7
		ENG110	English I	Major	Mandatory	2	0	0	3
		ATA101	Principles of Atatürk & Hist. of the Turkish Rev. I	Major	Mandatory	2	0	0	2
		TDE101	Turkish Language I	Major	Mandatory	2	0	0	2
	TOTAL SEMESTER ECTS								30
1 st YEAR SPRING	MAT101	MAT102	Calculus II	Major	Mandatory	3	2	0	7
		GE102	Fundamentals of Surveying	Double Major	Mandatory	3	1	0	6
		GE206	Database Management	Double Major	Mandatory	2	1	0	4
		PHY102	Physics II	Major	Mandatory	3	0	2	7
		ENG111	English II	Major	Mandatory	2	0	0	3
		ATA102	Principles of Atatürk & Hist. of the Turkish Rev. II	Major	Mandatory	2	0	0	2
		TDE102	Turkish Language II	Major	Mandatory	2	0	0	2
	TOTAL SEMESTER ECTS								31
2 nd YEAR FALL		MAT208	Applied Linear Algebra	Major	Mandatory	3	0	0	5
		COE201	Computer Programming and Applications	Double Major	Mandatory	2	2	0	4
		OPR201	Probability and Statistics for Engineers	Major	Mandatory	3	0	0	5
		ENS300	Engineering Ethics	Double Major	Mandatory	2	0	0	2
	GE102	GE201	Advanced Surveying	Double Major	Mandatory	2	2	0	5
		GE202	Geodesy	Double Major	Mandatory	3	0	0	3
		GE203	Real Estate Law	Double Major	Mandatory	2	0	0	3
	IKC-SC-A	University Elective Courses (E)	Major	Elective	2	0	0	3	
	TOTAL SEMESTER ECTS								30
2 nd YEAR SPRING	MAT208	MAT215	Analytic Geometry	Major	Mandatory	3	0	0	6
		GE204	Land Development	Double Major	Mandatory	3	0	0	6
	GE201	GE205	GNSS Surveying	Double Major	Mandatory	2	1	0	5
		GE207	Principles of Cartography	Double Major	Mandatory	2	0	0	3
		GE208	Computer Mapping	Double Major	Mandatory	0	4	0	3
		GE209	Topographic Mapping	Double Major	Mandatory	3	5	0	4
		IKC-SC-B	University Elective Courses (E)	Major	Elective	2	0	0	3
	TOTAL SEMESTER ECTS								30
3 rd YEAR FALL		MAT205	Differential Equations	Major	Mandatory	4	0	0	6
		GE301	Photogrammetry I	Double Major	Mandatory	3	0	0	4
		GE302	Geographic Information Systems	Double Major	Mandatory	2	1	0	4
		GE303	Land Development	Double Major	Mandatory	3	0	0	4
		GE304	Adjustment Computations	Double Major	Mandatory	3	0	0	4
		GE311	Summer Internship I	Double Major	Mandatory	0	2	0	5
		IKC-SC-C	University Elective Courses (E)	Major	Elective	2	0	0	3
	TOTAL SEMESTER ECTS								30
3 rd YEAR SPRING		MAT301	Numerical Methods in Engineering	Major	Mandatory	3	0	0	4
		GE306	Remote Sensing	Double Major	Mandatory	2	1	0	5
	GE303	GE307	Land Readjustment & Consolidation	Double Major	Mandatory	3	0	0	5
	GE301	GE308	Photogrammetry II	Double Major	Mandatory	2	1	0	4
		GE309	Engineering Surveying	Double Major	Mandatory	3	0	0	5
		GE310	Photogrammetric Modelling	Double Major	Mandatory	3	5	0	4
		IKC-SC-D	University Elective Courses (E)	Major	Elective	2	0	0	3
	TOTAL SEMESTER ECTS								30
4 th YEAR FALL		GE403	Summer Internship II	Double Major	Mandatory	0	2	0	4
		ES411	Occupational Health and Safety I	Major	Mandatory	2	0	0	3
	Min. 150 ECTS comp.	ENG4XX	Interdisciplinary Technical Elective Courses	Major or Double Major	Elective	0	2	0	6
		GE4XX-A	Technical Elective Course Group (3 courses will be selected from GE4XX-A elective c.)	Double Major	Elective				18
	TOTAL SEMESTER ECTS								31
4 th YEAR SPRING		BA306	Entrepreneurship & Small Business Development	Double Major	Mandatory	2	0	0	3
		GE402	Graduate Project	Double Major	Elective	0	6	0	8
		ES412	Occupational Health and Safety II	Major	Mandatory	2	0	0	3
		GE4XX-B	Technical Elective Course Group (4 courses will be selected from GE4XX-A elective c.)	Double Major	Elective				16
	TOTAL SEMESTER ECTS								30
CUMULATIVE ECTS									242