

Computer Engineering Double Major Program for Department of Electrical and Electronics Engineering

	Prerequisite	COURSE C.	COURSE NAME	Taken from	Compulsory or elective	T	A	L	ECTS
1 st YEAR FALL		ATA101	Principles of Atatürk and History of Turkish Revolution I	Major	Compulsory	2	0	0	2
		CHE101	Chemistry for Engineers	Major	Compulsory	2	0	2	7
		ENG110	English I	Major	Compulsory	2	0	0	3
		MAT101	Calculus I	Major	Compulsory	3	2	0	7
		PHY101	Physics I	Major	Compulsory	3	0	2	7
		TDE101	Turkish Language I	Major	Compulsory	2	0	0	2
		CENG101	Algorithms and Programming I	Double Major	Compulsory	3	2	0	4
			TOTAL SEMESTER ECTS						
1 st YEAR SPRING		ATA102	Principles of Atatürk and History of Turkish Revolution II	Major	Compulsory	2	0	0	2
		ENG111	English II	Major	Compulsory	2	0	0	3
		MAT102	Calculus II	Major	Compulsory	3	2	0	7
		OPR201	Probability and Statistics for Engineers	Major	Compulsory	3	0	0	5
		PHY102	Physics II	Major	Compulsory	3	0	2	7
		TDE102	Turkish Language II	Major	Compulsory	2	0	0	2
		CENG102	Algorithms and Programming II	Double Major	Compulsory	3	2	0	4
			TOTAL SEMESTER ECTS						
2 nd YEAR FALL		EEE203	Circuit Theory I	Major	Compulsory	3	2	0	6
		MAT203	Lineer Algebra	Major	Compulsory	3	0	0	3
		MAT205	Differential Equations	Major	Compulsory	4	0	0	6
		IKC-SC-A	University Elective Courses (E)	Major	Elective				3
		EEE205	Logic Design and Circuits	Major	Compulsory	3	2	0	6
		CENG201	Discrete Mathematics for Computer Science	Double Major	Compulsory	3	0	0	3
		CENG203	Object-Oriented Programming	Double Major	Compulsory	3	2	0	7
		CENG205	Theory of Computation	Double Major	Compulsory	3	0	0	3
		SPFD-3	Seçmeli Pedagojik Formasyon 3	Double Major	Elective				
		TOTAL SEMESTER ECTS							37
2 nd YEAR SPRING		IKC-SC-B	University Elective Courses (E)	Major	Elective				3
		MAT210	Numerical Methods and Applications	Major	Compulsory	2	0	1	5
		CENG202	Data Structures	Double Major	Compulsory	3	2	0	6
		CENG204	Programming Languages Concepts	Double Major	Compulsory	3	2	0	6
		CENG208	Database Systems	Double Major	Compulsory	3	2	0	6
		SPFD-4	Seçmeli Pedagojik Formasyon 4	Double Major	Elective				
			TOTAL SEMESTER ECTS						
3 rd YEAR FALL		IKC-SC-C	University Elective Courses (E)	Major	Elective				3
		CENG300	Summer Practice I	Double Major	Compulsory	0	2	0	3
		CENG301	Algorithm Analysis and Design	Double Major	Compulsory	3	2	0	6
		CENG303	Software Development I	Double Major	Compulsory	5	0	0	6
		CENG305	Computer Networks	Double Major	Compulsory	3	0	0	4
		CENG307	Software Engineering	Double Major	Compulsory	3	0	0	5
		CENG3XX	Technical Elective	Double Major	Elective				6
		SPFD-5	Seçmeli Pedagojik Formasyon 5	Double Major	Elective				0
		TOTAL SEMESTER ECTS							33
3 rd YEAR SPRING		IKC-SC-D	University Elective Courses (E)	Major	Elective				3
		CENG302	Operating Systems	Double Major	Compulsory	3	2	0	5
		CENG304	Computer Architecture	Double Major	Compulsory	3	2	0	5
		CENG306	Software Development II	Double Major	Compulsory	5	0	0	6
		CENG3XX	Technical Elective	Double Major	Elective				6
		CENG3XX	Technical Elective	Double Major	Elective				6
		SPFD-6	Seçmeli Pedagojik Formasyon 6	Double Major	Elective				
			TOTAL SEMESTER ECTS						
4 th YEAR FALL		ES411	Occupational Health and Safety I	Major	Compulsory	2	0	0	3
		ENG4XX	Interdisciplinary Technical Elective Courses	Major	Compulsory			0	6
		CENG400	Summer Practice II	Double Major	Compulsory	0	2	0	3
		CENG401	Undergraduate Graduation Project I	Double Major	Compulsory	4	2	0	6
		CENG4XX	Technical Elective	Double Major	Elective				6
		CENG4XX	Technical Elective	Double Major	Elective				6
		SPFD-7	Seçmeli Pedagojik Formasyon 7	Double Major	Elective				0
			TOTAL SEMESTER ECTS						
4 th YEAR SPRING		ES412	Occupational Health And Safety II	Major	Compulsory	2	0		3
		CENG402	Undergraduate Final Thesis II	Double Major	Compulsory	4	2		6
		CENG404	Foundations of Artificial Intelligence and Data Science	Double Major	Compulsory	3	0		3
		CENG4XX	Technical Elective	Double Major	Elective				6
		CENG4XX	Technical Elective	Double Major	Elective				6
		CENG4XX	Technical Elective	Double Major	Elective				6
		SPFD-8	Seçmeli Pedagojik Formasyon 8	Double Major	Elective				
			TOTAL SEMESTER ECTS						
		CUMULATIVE ECTS							249