

DOĞUŞ UNIVERSITY
MS IN COMPUTER AND INFORMATION SCIENCES CURRICULUM

Compulsory Courses	FALL						SPRING							
	Course Code	Title	T	P	L	Cr.	Prereq.	Course Code	Title	T	P	L	Cr.	Prereq.
	CIS 601	Theory of Computing	3	0	0	3		CIS 670	Advanced Data Structures and Algorithms	3	0	0	3	
	CIS 597	Graduate Seminar	0	1	0	0		CIS 598	Term Project**	0	1	0	0	
	CIS 599	Graduate Thesis***	0	6	0	0								

Required Elective Area Courses	FALL						SPRING							
	Course Code	Title	T	P	L	Cr.	Prereq.	Course Code	Title	T	P	L	Cr.	Prereq.
	CIS 501	System Theory I	3	0	0	3		CIS 630	Compiler Systems Theory	3	0	0	3	
	CIS 557	Object Oriented Design and Applications	3	0	0	3		CIS 590	Computer Graphics and Visualization	3	0	0	3	
	CIS 640	Computer Networks	3	0	0	3		CIS 610	Parallel Computer Organization	3	0	0	3	
	CIS 650	Artificial Intelligence Systems	3	0	0	3		CIS 620	Operating Systems Theory	3	0	0	3	
	CIS 660	Distributed and Parallel Databases	3	0	0	3				3	0	0	3	

Elective Area Courses	COMPUTER SOFTWARE														
	FALL							SPRING							
	Course Code	Title	T	P	L	Cr.	Prereq.	Course Code	Title	T	P	L	Cr.	Prereq.	
		CIS 615	User Interface Design	3	0	0	3		CIS 522	Internet, Intranet and Applications	3	0	0	3	
		CIS 616	Advanced Software Engineering	3	0	0	3		CIS 562	Systems Modeling and Simulation	3	0	0	3	
	COMPUTER HARDWARE														
	FALL							SPRING							
	Course Code	Title	T	P	L	Cr.	Prereq.	Course Code	Title	T	P	L	Cr.	Prereq.	
		CIS 541	Sequential Logic Circuits	3	0	0	3		CIS 506	Computer Based Data Acquisition	3	0	0	3	
		CIS 551	Computer Controlled Systems	3	0	0	3		CIS 680	Multimedia Systems and Applications	3	0	0	3	
	COMPUTER SCIENCES														
	FALL							SPRING							
	Course Code	Title	T	P	L	Cr.	Prereq.	Course Code	Title	T	P	L	Cr.	Prereq.	
		CIS 503	Discrete-Event Systems Theory and Applications	3	0	0	3		CIS 502	Systems Theory II	3	0	0	3	
		CIS 505	Fuzzy System Theory and Applications	3	0	0	3		CIS 552	Adaptive Systems Theory and Applications	3	0	0	3	
	CIS 537	Image Processing and Applications	3	0	0	3		CIS 554	Optimal Control Theory	3	0	0	3		
	CIS 555	Neural Computation and Neural Networks	3	0	0	3		CIS 556	Optimal Estimation Theory and Applications	3	0	0	3		
	CIS 559	Wavelet Theory and Applications	3	0	0	3		CIS 558	Optimization Theory and Applications	3	0	0	3		
	CIS 618	Data Mining	3	0	0	3		CIS 560	System Identification Theory and Applications	3	0	0	3		
								CIS 564	Advanced Process Control System	3	0	0	3		

	Thesis	Non-Thesis
Total Credit for Compulsory Courses	9	9
Total Credit for Elective Courses	12	21
Total Credit for graduation	21	30

Preparatory Program	FALL						SPRING							
	Course Code	Title	T	P	L	Cr.	Prereq.	Course Code	Title	T	P	L	Cr.	Prereq.
	COME 207	Advanced Object Oriented Programming	2	0	2	0		COME 218	Data Structures and Algorithms	2	0	2	0	
								COME 226	Computer Organization and Architecture	2	0	2	0	

Üniversite Senatosunun 21/03/2004 tarihli 2004/03 sayılı toplantısında yapılan değişiklikle kabul edilmiştir.

** Students are charged for 1 credit

*** Students are charged for 6 credits

Graduation Requirements

Students should complete 21/30 credit required and elective courses successfully mentioned in the curriculum and complete graduation thesis/project under the consultancy of an advisor and defend against a jury determined by the institute.