



Course categories: UC = University Core; FC = Faculty Core; AC = Area Core; AE = Area Elective; FE = Faculty Elective; UE = University Elective

Semester	Course Code	Course Title	Course Category	Hours			Total Credit	Pre-requisite	ECTS Credit
				Lecture	Tutorial	Lab/Prac.			
1	MATH123	DISCRETE MATHEMATICS	FC	3	1	0	3	-	5
1	PHYS121	PHYSICS-I	FC	3	1	1	4	-	5
1	MATH121	CALCULUS-I	FC	3	2	0	4	-	6
1	ENGR101	INFORMATION TECHNOLOGY AND APPLICATIONS	FC	2	0	1	2	-	2
1	ENGR103	COMPUTER PROGRAMMING-I	FC	2	0	2	3	-	5
1	ENGL121	ENGLISH-I	UC	3	0	0	3	-	4
1	TUOG101 / TURK131	TURKISH LANGUAGE-I / TURKISH AS A FOREIGN LANGUAGE-I	UC	2	0	0	2	-	3
Total 7 courses			TOTAL:	18	4	4	21		30
2	MATH122	CALCULUS-II	FC	3	2	0	4	MATH121	6
2	MATH124	LINEAR ALGEBRA	FC	3	1	0	3	-	5
2	PHYS122	PHYSICS-II	FC	3	1	1	4	PHYS121	5
2	ENGR104	COMPUTER PROGRAMMING-II	FC	2	0	2	3	ENGR103	4
2	ENGL122	ENGLISH-II	UC	3	0	0	3	ENGL121	4
2	TARH101 / HIST111	ATATURK'S PRINCIPLES AND HISTORY OF TURKISH REFORMS-I	UC	2	0	0	2	-	3
2	TUOG102 / TURK132	TURKISH LANGUAGE-II / TURKISH AS A FOREIGN LANGUAGE-II	UC	2	0	0	2	- / TURK131	3
Total 7 courses			TOTAL:	18	4	3	21		30
3	ELEE211	DIGITAL LOGIC DESIGN	AC	3	0	2	4	-	6
3	ELEE231	CIRCUIT THEORY-I	AC	3	0	2	4	MATH124, PHYS122	6
3	CMPE215	ALGORITHMS AND DATA STRUCTURES	AC	3	0	1	3	ENGR104	6
3	MATH225	DIFFERENTIAL EQUATIONS	FC	4	0	0	4	MATH121, MATH124	5
3	TARH102 / HIST112	ATATURK'S PRINCIPLES AND HISTORY OF TURKISH REFORMS-II	UC	2	0	0	2	-	3
3	UNIEXX1	UNIVERSITY ELECTIVE	UE	X	X	X	3	-	4
Total 6 courses			TOTAL:	15	0	5	20		30
4	CMPE216	OBJECT ORIENTED PROGRAMMING	AC	2	0	2	3	ENGR104	6
4	CMPE232	OPERATING SYSTEMS	AC	3	0	0	3	ENGR104	6
4	CMPE252	ANALYSIS OF ALGORITHMS	AC	3	0	2	4	CMPE215	6
4	ENGR215	RESEARCH METHODS FOR ENGINEERING AND ARCHITECTURE	FC	2	0	0	2	-	3
4	STAT226	PROBABILITY AND STATISTICS	FC	3	1	0	3	MATH121	6
4	OHA206	OCCUPATIONAL HEALTH AND SAFETY	FC	3	0	0	3	-	3
Total 6 courses			TOTAL:	16	1	4	18		30
5	CMPE321	MICROPROCESSORS	AC	3	0	2	4	-	6
5	CMPE341	DATABASE SYSTEMS	AC	3	0	2	4	CMPE215	5
5	SFWE343	SOFTWARE ANALYSIS AND DESIGN	AC	2	0	2	3	CMPE216	5
5	SFWE315	VISUAL PROGRAMMING	AC	2	0	2	3	CMPE216	5
5	ENGRXX1	FACULTY ELECTIVE	FE	X	X	X	3	-	5
5	UNIEXX2	UNIVERSITY ELECTIVE	UE	X	X	X	3	-	4
Total 6 courses			TOTAL:	10	0	8	20		30
6	SFWE344	SOFTWARE PROJECT MANAGEMENT	AC	2	0	1	2	SFWE343	4
6	MATH328	NUMERICAL ANALYSIS	FC	3	1	0	3	MATH124, MATH225	6
6	SFWEXX1	AREA ELECTIVE	AE	X	X	X	3	-	6
6	ENGRXX2	FACULTY ELECTIVE	FE	X	X	X	3	-	5
6	ENGRXX3	FACULTY ELECTIVE	FE	X	X	X	3	-	5
6	UNIEXX3	UNIVERSITY ELECTIVE	UE	X	X	X	3	-	4
Total 6 courses			TOTAL:	5	1	1	17		30
7	SFWE403	SUMMER TRAINING	AC	0	0	0	0	-	2
7	ENGR401	ENGINEERING DESIGN-I	FC	1	2	0	2	-	6
7	SFWE415	SOFTWARE ARCHITECTURE	AC	3	0	1	3	SFWE343	6
7	SFWEXX2	AREA ELECTIVE	AE	X	X	X	3	-	6
7	SFWEXX3	AREA ELECTIVE	AE	X	X	X	3	-	6
7	UNIEXX4	UNIVERSITY ELECTIVE	UE	X	X	X	3	-	4
Total 6 courses			TOTAL:	4	2	1	14		30
8	SFWE411	SOFTWARE VALIDATION AND TESTING	AC	3	0	1	3	SFWE343	6
8	ENGR402	ENGINEERING DESIGN-II	FC	0	4	2	3	ENGR401	10
8	ENGR404	ENGINEERING ATTRIBUTES AND ETHICS	FC	2	0	0	2	-	3
8	SFWEXX4	AREA ELECTIVE	AE	X	X	X	3	-	6
8	ENGRXX4	FACULTY ELECTIVE	FE	X	X	X	3	-	5
Total 5 courses			TOTAL:	5	4	3	14		30
GRAND TOTAL:				91	16	29	145		240

Area and Faculty Elective Courses									
No.	Course Code	Course Title	Course Category	Hours			Total Credit	Pre-requisite	ECTS Credit
				Lecture	Tutorial	Lab/Prac.			
1	SFWE316	INTERNET AND WEB PROGRAMMING	AE	2	0	2	3	CMPE216	6
2	SFWE434	CRYPTOGRAPHY	AE	3	0	0	3	-	6
3	SFWE412	SOFTWARE QUALITY ASSURANCE	AE	3	0	0	3	-	6
4	SFWE422	MOBILE APPLICATION DEVELOPMENT	AE	3	0	0	3	-	6
5	SFWE431	HUMAN-COMPUTER INTERACTION	AE	3	0	0	3	-	6
6	SFWE441	ADVANCE DATABASE	AE	3	0	0	3	-	6
7	SFWE442	OBJECT-ORIENTED PROGRAMMING LANGUAGE AND SYSTEMS	AE	3	0	0	3	-	6
9	SFWE445	RAPID APPLICATION DEVELOPMENT	AE	3	0	0	3	-	6
10	SFWE451	INFORMATION RETRIEVAL	AE	3	0	0	3	-	6
11	SFWE467	DATA MINING	AE	3	0	0	3	-	6
12	SFWE475	ADVANCED WEB PROGRAMMING	AE	3	0	0	3	CMPE216	6
13	SFWE472	COMPUTER GRAPHICS	AE	3	0	0	3	-	6
14	SFWE474	INTRODUCTION TO PARALLEL COMPUTING	AE	3	0	0	3	-	6
15	CMPE431	ADVANCED COMPUTER NETWORKS	FE	3	0	0	3	-	6
16	CMPE432	WIRELESS COMMUNICATION NETWORKS	FE	3	0	0	3	-	6
17	CMPE433	WIRELESS SENSOR NETWORKS	FE	3	0	0	3	-	6
18	CMPE461	COMPUTING SYSTEMS	FE	3	0	0	3	-	6
20	CMPE463	CLOUD COMPUTING	FE	3	0	0	3	-	6
21	CMPE464	ARTIFICIAL INTELLIGENCE	FE	3	0	0	3	-	6
22	CMPE465	NEURAL NETWORKS	FE	3	0	0	3	-	6
23	CMPE466	EXPERT SYSTEMS	FE	3	0	0	4	-	6
24	CHEM121	CHEMISTRY	FE	2	1	2	3	-	5
25	MATH228	ENGINEERING MATHEMATICS	FE	3	1	0	3	-	6
26	ELEE341	ELECTRONICS-I	FE	3	0	2	4	-	6
27	ELEE331	SIGNALS AND SYSTEMS	FE	3	2	0	4	-	6
28	ELEE362	COMMUNICATION SYSTEMS	FE	3	0	0	3	-	5
29	ELEE431	DIGITAL SIGNAL PROCESSING	FE	3	0	0	3	-	6
30	CMPE322	DATA COMMUNICATION AND COMPUTER NETWORKS	FE	3	0	2	4	-	6
31	AINE301	BASIC SEARCH METHODS	FE	3	0	0	3	MATH124, AINE 201	5

[illegible]

