DEPARTMENT OF COMPUTER ENGINEERING – DEPARTMENT OF MATHEMATICS
DOUBLE MAJOR PROGRAM

CATEGORY	CREDIT	ECTS	ALL PROGRAMS	Notes
1st GROUP COURSES (FULL COURSE EQUIVALENCY BETWEEN DEPARTMENTS)				
CC.R	3	5	ENG 101	
CC.R	3	5	ENG 102	
CC.R	4	6	PHYS 105	
U.C	2	2	HIST 101	
U.C	2	2	HIST 102	
U.C	2	2	TUR 101	
U.C	2	2	TUR 102	
U.C	0	1	TEDU 400	
S.F	3	5	ED 1	
S.F	3	5	ED 2	
S.F	3	5	ED 3	
S.F	3	5	ED 4	
S.F	3	5	ED 5	
F.E	3	5	SS 1	
F.E	3	5	SS 2	
CC.E	3	5	CC(A)	
CC.E	3	5	CC(H)	
CC.E	3	5	CC(L)	
CC.E	3	5	CC(NS)	
CC.E	3	5	CC(SS)	

			2. GROUP COURSES				
			Other Program Required (R) and Elective (E) Courses				
CATEGORY	CREDIT	ECTS	CATEGORY	CREDIT	ECTS	MATH	Notes
R/CC.R	3	5	CMPE 113	3	5	CMPE 101	
R/CC.R	3	6	CMPE 114	3	6	CMPE 112	
CC.R/R	4	7	MATH 101	4	7	MATH 113	1, 2
CC.R/R	4	7	MATH 102	4	7	MATH 114	
R	3	6	CMPE 201	3	5	MATH 105	
R	3	6	CMPE 223	3	5	MATH 108	
R	3	6	EE 207	3	6	MATH 207	
R	3	5	MATH 203	4	7	MATH 211	
R	3	6	CMPE 224	3	6	MATH 221	
R	3	5	CMPE 232-N	4	7	MATH 212	
R	3	6	CMPE 252	3	6	MATH 222	
R	3	6	MATH 240	3	6	MATH 242	
R	3	6	CMPE 327	4	7	MATH 313	
R	3	6	CMPE 361-N	3	7	MATH 321	
R	1	2	CMPE 399	3	6	MATH 331	
R	3	5	CMPE 326	4	7	MATH 314	
R	3	6	CMPE 371	3	7	MATH 322	
R	3	5	CMPE 382	3	6	MATH 352	

Category	Credit	ECTS	CMPE	Credit	ECTS	MATH
R	3	6	SENG 214	3	6	MATH 409
R	3	5	CMPE 421	3	6	MATH 491
R	3	5	CMPE 453			
R	3	8	CMPE 491			
R	1	2	CMPE 499			
R	3	6	CMPE 472			
R	3	8	CMPE 492			
E	3	5	CMPE 3XX/4XX	3	6	MATH 3XX/4XX
E	3	5	CMPE 3XX/4XX	3	6	MATH 3XX/4XX
E	3	5	CMPE 3XX/4XX	3	6	MATH 3XX/4XX
E				3	6	MATH 3XX/4XX
E				3	6	MATH 3XX/4XX

EQUIVALENCY BETWEEN 2nd GROUP COURSES FOR CMPE and MATH DEPARTMENTS*					
CATEGORY	CREDIT	ECTS	CMPE	MATH	NOTES
CC.R/R	4	7	MATH 101	MATH 113	
CC.R/R	4	7	MATH 102	MATH 114	
R	3	5/6	CMPE 113	CMPE 112	5
R	3	6/5	CMPE 201	MATH 108	5
R	3	5/6	MATH 203	MATH 242	3, 5
R	3	5/6	MATH 203	MATH 221	3
R/E	3	6	MATH 240	MATH 3XX/4XX	4
Number of courses required for graduation:			48	45	
Minimum credits required for graduation (Cr):			136	135	

Minimum total ECTS required for graduation	240	240

* Course equivalencies given in this table are only valid for double major students. The equivalency applications for the courses that do not exist in the table are evaluated by Faculty Executive Boards and endorsed if seen appropriate by both.

Notes:

1) For both departments, a course under "R" or "E" category other than summer practice courses, can be counted under "Free Elective" category in the other department.
2) CMPE-MATH Double Major students whose major field is CMPE will be exempt from CMPE 101.
3) CMPE-MATH Double Major students, whose major field is CMPE can take MATH 203 to have it credited for MATH 242 and those students whose major field is MATH can take MATH 221 to have it credited for MATH 203. MATH 203 cannot be credited for MATH 221 course. MATH 242 course cannot be credited for MATH 203.
4) CMPE-MATH Double Major students can have MATH 240 course credited for MATH 3XX/4XX departmental elective course.
5) Double major students must compensate for missing credits by taking extra course(s) due to the credits differences of equivalent courses.