

DEPARTMENT OF SOFTWARE ENGINEERING
DOUBLE MAJOR PROGRAM FOR STUDENTS FROM COMPUTER ENGINEERING
UNDERGRADUATE CURRICULUM
JULY, 2023

Software Engineering Program			Equivalent
1 st Term			1 st Term
Course Code	Course Name	(T-U)A	Course Code
KRY111	Career Planning	(1-0)1	KRY111
CMPE113	Computer Programming I	(2-2)4	CMPE113
HIST111	Principles of Atatürk and History of Turkish Revolution I (in English)	(2-0)2	HIST111
PHYS101	General Physics I	(3-2)6	PHYS101
ENG101	English For Academic Purposes I	(4-0)3.5	ENG101
CMPE109	Fundamentals of Computing	(2-1)2.5	CMPE109
MATH151	Calculus I	(4-2)7	MATH151
CHE105	General Chemistry	(3-2)5	CHE105
	Total Credit	31	
2 nd Term			2 nd Term
Course Code	Course Name	(T-U)A	Course Code
HIST112	Principles of Atatürk and History of Turkish Revolution II (in English)	(2-0)2	HIST112
PHYS102	General Physics II	(3-2)6	PHYS102
HIST221	History of Civilization	(3-0)3	HIST221
ENG102	English for Academic Purposes II	(4-0)3.5	ENG102
SE112	Introduction to Software Engineering	(3-0)3.5	SE 346
CMPE114	Computer Programming II	(3-2)5	CMPE114
MATH152	Calculus II	(4-2)7	MATH152
	Total Credit	30	
3 rd Term			3 rd Term
Course Code	Course Name	(T-U)A	Course Code
MATH275	Linear Algebra	(4-0)6	MATH275
ENG201	English for Academic Purposes III	(3-0)3	ENG201
SE221	Software Requirements Engineering	(3-0)6	
CMPE251	Discrete Computational Structures	(3-0)7	CMPE251
CMPE225	Object-Oriented Programming	(3-2)8	CMPE225
	Total Credit	30	
4 th Term			4 th Term
Course Code	Course Name	(T-U)A	Course Code
MATH276	Differential Equations	(4-0)6	MATH276
IE220	Probability and Statistics	(3-0)5	IE220
ENG202	English for Academic Purposes IV	(3-0)3	ENG202
SE212	Human-Computer Interaction	(3-0)8	
CMPE226	Data Structures	(3-0)8	CMPE226

	Total Credit	30	
5th Term			5th Term
Course Code	Course Name	(T-U)A	Course Code
SE399	Summer Practice I	(0-0)6	CMPE399
CMPE325	Study of Programming Languages	(3-0)6	CMPE325
CMPE341	Database Design and Management	(3-2)7	CMPE341
SE345	Software Quality Assurance	(3-0)7	
SE321	Object-Oriented Analysis and Design	(3-0)7	
ENG301	English for Occupational Purposes I	(3-0)3	ENG301
	Total Credit	30	
6th Term			6th Term
Course Code	Course Name	(T-U)A	Course Code
SE324	Software Project Management and Economics	(3-0)5	
SE328	Algorithms and Optimization Methods	(3-0)5	CMPE 323
SE322	Software Architecture	(3-0)5	
SE344	Systems Software Validation and Testing	(2-2)6	
CMPE338	Computer Networks and Operating Systems	(3-2)6	CMPE 334
ENG302	English for Occupational Purposes II	(3-0)3	ENG302
	Total Credit	30	
7th Term			7th Term
Course Code	Course Name	(T-U)A	Course Code
TURK401	Turkish Language I	(2-0)2	TURK401
SE493	Project Orientation	(2-0)5	CMPE493
SE499	Summer Practice II	(0-0)10	CMPE499
SE-AE4FA1	Area Elective	(3-0)5	
SE-AE4FA2	Area Elective	(3-0)5	
SE-AE4FA3-C Grubu Zorunlu Alan Seçmeli	Area Elective	(3-0)5	MATH380**
SE-GE4FA1- Girişimcilik Havuzu	General Elective	(3-0)4	Girişimcilik Havuzu
SE-GE4FA2	General Elective	(3-0)4	
	Total Credit	30	
8th Term			8th Term
Course Code	Course Name	(T-U)A	Course Code
TURK402	Turkish Language II	(2-0)2	TURK402
SE494	Senior Project	(4-0)9	CMPE494
SE-AE4SP1	Area Elective	(3-0)5	
SE-AE4SP2	Area Elective	(3-0)5	
SE-AE4SP3- Çokdisiplinli Dersler	Area Elective (Multidisciplinary Courses)	(3-0)5	
SE-GE4SP1	General Elective	(3-0)4	

	Total Credit	30	

NOTES:

- 1- **Double major** department is "**Software Engineering**"; **Main major** department
- 2- The courses written in bold must be taken from **double major** department.
- 3- Only the courses on the same row are assumed to be equivalent and can be transferred.
- 4- **AREA ELECTIVES:** 5 area elective courses need to be taken from Software Engineering. Computer Engineering elective courses can be considered to be equivalent in the Computer Engineering curriculum. MATH380 can be considered to be equivalent in both departments (MATH380).
- 5- General Electives (GE): All the GEs must be taken from the **main major** department.
- 6- Summer Practice: Both summer practice must be taken from the **main major** department.
- 7- Senior Project and Project Orientation: Both courses must be taken from the **main major** department.
- 8- SE112 Introduction to Software Engineering must be taken from **double major** department.
- 9- **major** program as SE346 Software Engineering.
- 9- ****SE-AE4FA3-C** Grubu Zorunlu Alan Seçmeli grubuna ait dersler: MATH380

ENGINEERING**UTER ENGINEERING PROGRAM****SUM**

Course from Computer Engineering Program	
Course Name	(T-U)A
Career Planning	(1-0)1
Computer Programming I	(2-2)4
Principles of Atatürk and History of Turkish Revolution I (in English)	(2-0)2
General Physics I	(3-2)6
English For Academic Purposes I	(4-0)3.5
Fundamentals of Computing	(2-1)2.5
Calculus I	(4-2)7
General Chemistry	(3-2)5
	31
Course Name	(T-U)A
Principles of Atatürk and History of Turkish Revolution II (in English)	(2-0)2
General Physics II	(3-2)6
History of Civilization	(3-0)3
English for Academic Purposes II	(4-0)3.5
Software Engineering	(3-1)6
Computer Programming II	(3-2)5
Calculus II	(4-2)7
	32,5
Course Name	(T-U)A
Linear Algebra	(4-0)6
English for Academic Purposes III	(3-0)3
Discrete Computational Structures	(3-0)7
Object-Oriented Programming	(3-2)8
	24
Course Name	(T-U)A
Differential Equations	(4-0)6
Probability and Statistics	(3-0)5
English for Academic Purposes IV	(3-0)3
Data Structures	(3-0)8

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Course Name	(T-U)A
Summer Practice I	(0-0)6
Study of Programming Languages	(3-0)6
Database Design and Management	(3-2)7
English for Occupational Purposes I	(3-0)3
	16

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Course Name	(T-U)A
Algorithms	(3-0)7
Computer Networks	(3-2)6
English for Occupational Purposes II	(3-0)3
	16

Course Name	(T-U)A
Turkish Language I	(2-0)2
Project Orientation	(2-0)5
Summer Practice II	(0-0)10
Numerical Methods for Engineers	(3-0)5
General Elective	(3-0)4
General Elective	(3-0)4
	20

Course Name	(T-U)A
Turkish Language II	(2-0)2
Senior Project	(4-0)9
General Elective	(3-0)4

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is "**Computer Engineering**"

ferred from **main major** program to **double major**

gineering curriculum. None of these five area
rriculum. Only one area elective course can be

ment.

partment.

in major department.

department and should be transferred to the **main**