

**DEPARTMENT OF CIVIL ENGINEERING**  
**DOUBLE MAJOR PROGRAM FOR STUDENTS FROM INDUSTRIAL ENGINEERING PROGRAM**  
**UNDERGRADUATE CURRICULUM**

<b>Civil Engineering Program</b>			<b>Equivalent Course from Industrial Engineering Program</b>		
<b>1<sup>st</sup> Term</b>			<b>1<sup>st</sup> Term</b>		
<b>Course Code</b>	<b>Course Name</b>	<b>(T-U)A</b>	<b>Course Code</b>	<b>Course Name</b>	<b>(T-U)A</b>
KRY111	Career Planning	(1-0)1	KRY111	Career Planning	(1-0)1
MATH151	Calculus I	(4-2)7	MATH151	Calculus I	(4-2)7
PHYS101	General Physics I	(3-2)6	PHYS101	General Physics I	(3-2)6
ENG101	English For Academic Purposes I	(4-0)3.5	ENG101	English For Academic Purposes I	(4-0)3.5
<b>CE101</b>	<b>Engineering Fundamentals</b>	<b>(1-0)2.5</b>			
CHE105	General Chemistry	(3-2)5	CHE105	General Chemistry	(3-2)5
HIST111	Principles of Atatürk and History of Turkish Revolution I (in English)	(2-0)2	HIST111	Principles of Atatürk and History of Turkish Revolution I (in English)	(2-0)2
CMPE102	Computer Programming	(2-2)4	CMPE102	Computer Programming	(2-2)4
	<b>Total Credit</b>	31			
<b>2<sup>nd</sup> Term</b>			<b>2<sup>nd</sup> Term</b>		
<b>Course Code</b>	<b>Course Name</b>	<b>(T-U)A</b>	<b>Course Code</b>	<b>Course Name</b>	<b>(T-U)A</b>
MATH152	Calculus II	(4-2)7	MATH152	Calculus II	(4-2)7
PHYS102	General Physics II	(3-2)6	PHYS102	General Physics II	(3-2)6
CE-GE1SP1	General Elective	(3-0)4		General Elective	(3-0)4
ENG102	English for Academic Purposes II	(4-0)3.5	ENG102	English for Academic Purposes II	(4-0)3.5
HIST112	Principles of Atatürk and History of Turkish Revolution II (in English)	(2-0)2	HIST112	Principles of Atatürk and History of Turkish Revolution II (in English)	(2-0)2
HIST221	History of Civilization	(3-0)3	HIST221	History of Civilization	(3-0)3
CE110	Engineering Graphics and Design	(1-3)4.5	CE110	Engineering Graphics and Design	(1-3)4.5
	<b>Total Credit</b>	30			

3 <sup>rd</sup> Term			3 <sup>rd</sup> Term		
Course Code	Course Name	(T-U)A	Course Code	Course Name	(T-U)A
MATH275	Linear Algebra	(4-0)6	MATH275	Linear Algebra	(4-0)6
ENG201	English for Academic Purposes III	(3-0)3	ENG201	English for Academic Purposes III	(3-0)3
<b>CE201</b>	<b>Basic Mechanics I-Statics</b>	<b>(4-0)7</b>			
MATE207	Introduction to Materials Engineering	(3-0)5	MATE207	Introduction to Materials Engineering	(3-0)5
CE-GE2FA1	General Elective	(3-0)4		General Elective	(3-0)4
IE220	Probability and Statistics for Engineers	(3-0)5	IE201	Probability and Statistics I	(3-0)7
	<b>Total Credit</b>	30			
4 <sup>th</sup> Term			4 <sup>th</sup> Term		
Course Code	Course Name	(T-U)A	Course Code	Course Name	(T-U)A
<b>CE202</b>	<b>Basic Mechanics II-Dynamics</b>	<b>(3-0)5</b>			
<b>CE210</b>	<b>Civil Engineering Materials</b>	<b>(3-2)6</b>			
MATH276	Differential Equations	(4-0)6	MATH276	Differential Equations	(4-0)6
ENG202	English for Academic Purposes IV	(3-0)3	ENG202	English for Academic Purposes IV	(3-0)3
<b>CE204</b>	<b>Mechanics of Materials</b>	<b>(3-0)5</b>			
<b>MATH380</b>	<b>Numerical Methods for Engineers</b>	<b>(3-1)5</b>			
	<b>Total Credit</b>	30			
5 <sup>th</sup> Term			5 <sup>th</sup> Term		
Course Code	Course Name	(T-U)A	Course Code	Course Name	(T-U)A
ENG301	English for Occupational Purposes I	(3-0)3	ENG301	English for Occupational Purposes I	(3-0)3
<b>CE321</b>	<b>Structural Analysis</b>	<b>(3-0)5</b>			
<b>CE335</b>	<b>Transportation Engineering</b>	<b>(3-0)5</b>			
<b>CE307</b>	<b>Fluid Mechanics</b>	<b>(3-2)5.5</b>			
<b>CE309</b>	<b>Geology and Surveying</b>	<b>(2-2)6</b>			
<b>CE311</b>	<b>Soil Mechanics</b>	<b>(3-2)5.5</b>			
CE399	Summer Practice I*	(0-0)10	IE399	Summer Practice I*	(0-0)6
	<b>Total Credit</b>	30			



**NOTES:**

1- \* Summer Practices: First summer practice must be taken from Industrial Engineering Department and the second summer practice from Civil Engineering Department.

2- \*\*Area Electives: If the students' advisor in the Civil Engineering Department and the department head approves, at most two area electives that are taken from the Industrial Engineering Department can be considered as equivalent in the Civil Engineering program.

3-General Electives: General electives are the same for both departments.

4-The courses listed as bold fonts are the ones that should be taken.

<b>Total Courses</b>	<b>22+ Summer Practice II+(1 or 2 Area elective in Note 2, if these area electives from IE are not considered as equivalent in CE)</b>
<b>Total ECTS</b>	<b>119.5+10+(6+6)</b>