

AGU Department of Civil Engineering Undergraduate Program (For students who start their undergraduate education in Fall 2016)						
FIRST YEAR	First Semester					
	Code	Course Name	Contact (h/w)	Lab (h/w)	Credit	ECTS
	MATH 151	Calculus I	4	0	4	6
	PHYS 101	Physics I	3	2	4	5
	COMP 101	Art of Computing	3	2	3	6
	GLB 101	AGU Ways	2	2	3	4
	ENG 101	English I	4	0	4	4
	CE 101	Civil Engineering Drawing	1	2	2	5
	Second Semester					
	Code	Course Name	Contact (h/w)	Lab (h/w)	Credit	ECTS
	MATH 152	Calculus II	4	0	4	6
	PHYS 102	Physics II	3	2	4	5
	CE 102	Exploring Profession	2	2	3	6
	GLB 102	Global Issues Elective I	2	2	3	4
SECOND YEAR	CHEM 101	Chemistry	2	1	3	5
	ENG 102	English II	4	0	4	4
	Third Semester					
	Code	Course Name	Contact (h/w)	Lab (h/w)	Credit	ECTS
	CE 221	Mechanics	4	0	4	6
	ECON 222	Economics for Engineers	3	0	3	4
	MATH 205	Differential Equations	4	0	4	5
	CE 241	Materials Science	2	1	3	5
	CE 262	Geology for Civil Engineering	3	0	3	4
	GLB 201	Global Issues Elective II	2	2	3	4
	TURK 101	Turkish I	2	0	2	2
	Fourth Semester					
	Code	Course Name	Contact (h/w)	Lab (h/w)	Credit	ECTS
	CE 222	Strength of Materials	3	2	4	6
THIRD YEAR	MATH 203	Linear Algebra	3	0	3	5
	CE 244	Materials of Construction	2	1	3	4
	CE 272	Fluid Mechanics	3	0	3	5
	CE 202	Numerical Methods for Engineers	3	0	3	4
	GLB 202	Global Issues Elective III	2	2	3	4
	TURK 102	Turkish II	2	0	2	2
	Fifth Semester					
	Code	Course Name	Contact (h/w)	Lab (h/w)	Credit	ECTS
	CE 300	Summer Practice	0	0	0	4
	MATH 301	Probability and Statistics	3	0	3	5
	CE 371	Hydromechanics	3	1	4	5
	CE 363	Soil Mechanics	3	2	4	5
	CE 383	Structural Analysis	3	0	3	5
	GLB 301	Global Issues Elective IV	2	2	3	4
	HIST 201	History of Turkish Republic I	2	0	2	2
	Sixth Semester					
	Code	Course Name	Contact (h/w)	Lab (h/w)	Credit	ECTS
FOURTH YEAR	CE 332	Construction Engineering and Management	3	0	3	4
	CE 366	Foundation Engineering	3	1	4	5
	CE 374	Hydrology and Water Resources Engineering	4	0	4	5
	CE 382	Reinforced Concrete	3	0	3	5
	CE 352	Introduction to Transportation and Traffic Engineering	2	1	3	5
	GLB 302	Global Issues Elective V	2	2	3	4
	HIST 202	History of Turkish Republic II	2	0	2	2
	Seventh Semester					
	Code	Course Name	Contact (h/w)	Lab (h/w)	Credit	ECTS
	CE 400	Summer Practice	0	0	0	4
	CE 401	Capstone Design -I	3	0	3	5
	CE 481	Fundamentals of Steel Design	3	0	3	5
		Technical Elective	3	0	3	5
		Technical Elective	3	0	3	5
		Technical Elective	3	0	3	5
	OHS 401	Occupational Health and Safety	2	0	2	1
	Eighth Semester					
	Code	Course Name	Contact (h/w)	Lab (h/w)	Credit	ECTS
	CE 402	Capstone Design - II	2	2	3	6
		Technical Elective	3	0	3	5
		Technical Elective	3	0	3	5
		Technical Elective	3	0	3	5
		Non-Technical Elective	3	0	3	4
		Free Elective Course	3	0	3	4
	OHS 402	Occupational Health and Safety	2	0	2	1

NOTES

For the students in 3rd and 4th years who either haven't taken or have failed any course in his/her graduation curriculum, if the related course is not available in the new curriculum,

- If there is a designated course in the table below, student have to take that course. On condition that the new course's ECTS is lower than the former one, the student have to take additional course(s) by approval of his/her advisor.
- Students who either haven't taken or have failed "HUM101 Understanding Contemporary World", "HUM102 Imagining Future" or PDA coded courses have to take "SOC" or "GLB" coded courses which has at least 3 ECTS by approvals of his/her advisor, course instructor and the head of department.
- Students who either haven't taken or have failed SCI 102 Science of Nature II have to take PHYS 102 Physics II and/or CHEM 101 Chemistry.

Courses at the Former Curriculum							Courses at the New Curriculum					
Code	Course Name	Contact (h/w)	Lab (h/w)	Credit	ECTS		Code	Course Name	Contact (h/w)	Lab (h/w)	Credit	ECTS
MATH 101	Calculus I	4	0	4	5	→	MATH 151	Calculus I	4	0	4	6
SCI 101	Science of Nature I	3	2	4	7	→	PHYS 101	Physics I	3	2	4	5
COMP 101	Art of Computing	3	2	4	6	→	COMP 101	Art of Computing	3	2	3	6
ENG 101	English I	4	0	4	4	→	ENG 101	English I	4	0	4	4
TURK 101	Turkish I	2	0	2	2	→	TURK 101	Turkish I	2	0	2	2
MATH 102	Calculus II	4	0	4	5	→	MATH 152	Calculus II	4	0	4	6
SCI 102	Science of Nature II	3	2	4	7	→	PHYS 102	Physics II	3	2	4	5
CE 102	Exploring Profession	3	2	4	6	→	CHEM 101	Chemistry	2	1	3	5
ENG 102	English II	4	0	4	4	→	CE 102	Exploring Profession	2	2	3	6
TURK 102	Turkish II	2	0	2	2	→	ENG 102	English II	4	0	4	4
CE 221	Mechanics	2	2	3	5	→	TURK 102	Turkish II	2	0	2	2
MATH 203	Linear Algebra	3	0	3	5	→	CE 221	Mechanics	4	0	4	6
CE 201	Civil Engineering Drawing	1	2	2	4	→	MATH 203	Linear Algebra	3	0	3	5
CE 262	Geology for Civil Engineering	3	0	3	4	→	CE 101	Civil Engineering Drawing	1	2	2	5
BA 221	Entrepreneurship and Innovation	4	0	4	4	→	CE 262	Geology for Civil Engineering	3	0	3	4
HIST 201	History of Modern Turkey I	2	0	2	2	→	GLB 102	Innovation and Entrepreneurship	2	2	3	4
MATH 202	Engineering Mathematics II	4	0	4	6	→	HIST 201	History of Turkish Republic I	2	0	2	2
CE 222	Strength of Materials	3	2	4	6	→	MATH 205	Differential Equations	4	0	4	5
CE 242	Materials Science	2	1	3	5	→	CE 222	Strength of Materials	3	2	4	6
CE 272	Fluid Mechanics	3	0	3	6	→	CE 241	Materials Science	2	1	3	5
CE 202	Numerical Methods for Engineers	2	2	3	5	→	CE 272	Fluid Mechanics	3	0	3	5
HIST 202	History of Modern Turkey II	2	0	2	2	→	CE 202	Numerical Methods for Engineers	3	0	3	4
CE 300	Summer Practice	0	0	0	6	→	HIST 202	History of Turkish Republic II	2	0	2	2
MATH 301	Probability and Statistics	3	0	3	5	→	CE 300	Summer Practice	0	0	0	4
CE 344	Materials of Construction	2	1	3	4	→	MATH 301	Probability and Statistics	3	0	3	5
CE 371	Hydromechanics	3	1	4	5	→	CE 244	Materials of Construction	2	1	3	4
CE 363	Soil Mechanics	3	2	4	5	→	CE 371	Hydromechanics	3	1	4	5
CE 383	Structural Analysis	4	0	4	5	→	CE 363	Soil Mechanics	3	2	4	5
CE 332	Construction Engineering and Management	3	0	3	5	→	CE 383	Structural Analysis	3	0	3	5
CE 366	Foundation Engineering	3	1	4	5	→	CE 332	Construction Engineering and Management	3	0	3	4
CE 374	Hydrology and Water Resources Engineering	4	0	4	5	→	CE 366	Foundation Engineering	3	1	4	5
CE 382	Reinforced Concrete	3	0	3	5	→	CE 374	Hydrology and Water Resources Engineering	4	0	4	5
CE 352	Introduction to Transportation and Traffic Engineering	2	1	3	5	→	CE 382	Reinforced Concrete	3	0	3	5
CE 384	Steel Structures	3	0	3	5	→	CE 352	Introduction to Transportation and Traffic Engineering	2	1	3	5
CE 400	Summer Practice	0	0	0	6	→	CE 481	Fundamentals of Steel Design	3	0	3	5
CE 401	Capstone Design - I	2	2	3	6	→	CE 400	Summer Practice	0	0	0	4
ECON 222	Economics for Engineers	3	0	3	4	→	CE 401	Capstone Design -I	3	0	3	5
	Technical Elective	3	0	3	6	→	ECON 222	Economics for Engineers	3	0	3	4
	Technical Elective	3	0	3	6	→		Technical Elective	3	0	3	5
OHS 401	Occupational Health and Safety	2	0	2	1	→		Technical Elective	3	0	3	5
CE 402	Capstone Design - II	2	2	3	6	→	OHS 401	Occupational Health and Safety	2	0	2	1
	Technical Elective	3	0	3	6	→	CE 402	Capstone Design - II	2	2	3	6
	Technical Elective	3	0	3	6	→		Technical Elective	3	0	3	5
	Technical Elective	3	0	3	6	→		Technical Elective	3	0	3	5
	Technical Elective	3	0	3	6	→		Technical Elective	3	0	3	5
OHS 402	Occupational Health and Safety	2	0	2	1	→		Technical Elective	3	0	3	5
							OHS 402	Occupational Health and Safety	2	0	2	1