

According to Atılım University Minor Program Directive, the students are required to take at least six courses, not less than 30 ECTS. However, there might be some common or equivalent courses between the minor program and the student's already enrolled major program. In case the applicants who have successfully passed the courses equivalent to the compulsory courses mentioned below in their major programs, ECTS and number of courses that those students will take may not fulfill the minimum requirements of 20 ECTS and 4 courses as per Article 4(3) of the Atılım University Minor Program Directive. In that case, the compulsory and/or the area elective courses as well as the number of courses that students must take to meet the minimum requirements of the Minor Program will be decided by the Head of Civil Engineering Department. Accordingly, the total credits that students will take in the minor program may differ, provided that it is not less than 20 ECTS and four courses in total in accordance with the Article 4-(3) of the Atılım University Minor Program Directive.

Article 4-(3) There may be common or equivalent courses between major and minor programs of students. In a minor program, students must take a minimum of four (4) courses not less than twenty (20) ECTS in total excluding common or equivalent courses of the major program.

**CIVIL ENGINEERING DEPARTMENT
CURRICULUM FOR CIVIL ENGINEERING MINOR PROGRAM**

Civil Engineering – Geotechnical Engineering Minor Program Courses				
Course Code	Course Name	Theory	Application	ECTS
CE 201	Basic Mechanics 1: Statics	4	0	7
CE 204	Mechanics of Materials	3	0	5
CE 309	Geology and Surveying	2	2	6
CE 311	Soil Mechanics	3	2	5.5
CE 328	Foundation Engineering	3	0	5.5
	Area Elective	3	0	6
Total	6	18	4	35
Civil Engineering - Geotechnical Engineering Minor Program Area Elective Pool				
Course Code	Course Name	Theory	Application	ECTS
CE416	Geotechnical Site Characterization	3	0	6
CE417	Rock Mechanics	3	0	6
CE418	Slope Stability	3	0	6
CE419	Deep Excavations and Retaining Structures	3	0	6
CE420	Tunnelling	3	0	6
CE454	Computer Applications in Geotechnical Engineering	3	0	6
CE405	Design of Dams	3	0	6

Civil Engineering – Hydraulic Engineering Minor Program Courses				
Course Code	Course Name	Theory	Application	ECTS
CE 201	Basic Mechanics 1: Statics	4	0	7
CE 202	Basic Mechanics 2: Dynamics	3	0	5
CE 307	Fluid Mechanics	3	2	5.5
CE 310	Hydraulic Engineering	3	0	5.5
CE 402	Hydrology and Water Resources	3	0	5.5
	Area Elective	3	0	6
Total	6	19	2	34.5
Civil Engineering - Hydraulic Engineering Minor Program Area Elective Pool				
Course Code	Course Name	Theory	Application	ECTS
CE406	Urban Hydraulics	3	0	6
CE429	Irrigation and Drainage	3	0	6
CE433	Design of Coastal Structures	3	0	6
CE470	Open Channel Hydraulics	3	0	6
CE471	Integrated Coastal Zone Management	3	0	6
CE472	Dimensional Analysis and Hydraulic Modeling	3	0	6
CE473	Coastal Hydraulics	3	0	6
CE479	Applied Water Resources Engineering	3	0	6

Civil Engineering - Structural Engineering Minor Program Courses				
Course Code	Course Name	Theory	Application	ECTS
CE 201	Basic Mechanics 1: Statics	4	0	7
CE 204	Mechanics of Materials	3	0	5
CE 210	Civil Engineering Materials	3	2	6
CE 321	Structural Analysis	3	0	5
CE 342	Reinforced Concrete Fundamentals	3	0	5.5
CE 344	Fundamentals of Steel Design	3	0	5.5
	Area Elective	3	0	6
Total	7	22	2	40
Civil Engineering - Structural Engineering Minor Program Area Elective Pool				
Course Code	Course Name	Theory	Application	ECTS
CE410	Advanced Structural Steel Design	3	0	6
CE421	Applied Solid Mechanics	3	0	6
CE423	Structural Optimization	3	0	6
CE424	Structural Systems	3	0	6
CE431	Computer Applications in Structural Engineering	3	0	6
CE437	Structural Dynamics	3	0	6
CE438	Prestressed Concrete Fundamentals	3	0	6
CE440	Earthquake Engineering	3	0	6
CE444	Analysis of Framed Structures	3	0	6
CE447	Computer Aided Analysis and Design in Structural Engineering	3	0	6
CE449	Computer Aided Analysis and Design of Reinforced Concrete Structural Members	3	0	6
CE456	Design and Construction of Tall Building Systems	3	0	6

Civil Engineering – Construction Engineering and Management Minor Program Courses				
Course Code	Course Name	Theory	Application	ECTS
CE 201	Basic Mechanics 1: Statics	4	0	7
CE 204	Mechanics of Materials	3	0	5
IE 305	Engineering Economy	2	0	5
CE 430	Construction Engineering and Management	3	0	5.5
	Area Elective	3	0	6
	Area Elective	3	0	6
Total	6	18	0	34.5
Civil Engineering – Construction Engineering and Management Minor Program Area Elective Pool				
Course Code	Course Name	Theory	Application	ECTS
CE 425	Construction Planning and Cost Estimating	3	0	6
CE 463	International Construction Contracts	3	0	6
CE 464	Construction Scheduling and Cost Control	3	0	6
CE 466	Construction and Design of Renewable Energy Projects	3	0	6
CE 468	Emerging Technologies in Civil Engineering	3	0	6