

**ABDULLAH GÜL UNIVERSITY / ABDULLAH GÜL ÜNİVERSİTESİ**  
**Civil Engineering Undergraduate Program / İnşaat Mühendisliği Lisans Programı**  
*(Curriculum to be implemented as of 2025-2026 Academic Year Fall Semester)*  
*(2025-2026 Eğitim-Öğretim Yılı Güz Dönemi İtibarıyla Uygulanacak Müfredat)*

| Freshman Year / FALL Semester – 1. SINIF GÜZ YARIYILI      |                                 |            |      |     |         |      |               |
|--|---------------------------------|------------|------|-----|---------|------|---------------|
| Code   | Course Name                     | Type       | Lec. | Lab | Credits | ECTS | Prerequisites |
| MATH101  | Calculus I                      | Compulsory | 5    | 0   | 5       | 7    |               |
| PHYS101  | Physics I                       | Compulsory | 3    | 2   | 4       | 5    |               |
| PHYS107  | Physics-I Laboratory            | Compulsory | 0    | 2   | 1       | 2    |               |
| COMP103  | Art of Computing                | Compulsory | 3    | 2   | 4       | 5    |               |
| GLB101   | AGU Ways                        | Compulsory | 3    | 0   | 3       | 4    |               |
| ENG101   | English I                       | Compulsory | 4    | 0   | 4       | 4    | BRIDGE***     |
| CHEM101  | Chemistry for Engineers         | Compulsory | 3    | 2   | 4       | 5    |               |
| <b>Total</b>   |                                 |            | 21   | 8   | 25      | 32   |               |
| Freshman Year / SPRING Semester - 1. SINIF BAHAR YARIYILI  |                                 |            |      |     |         |      |               |
| Code   | Course Name                     | Type       | Lec. | Lab | Credits | ECTS | Prerequisites |
| MATH102  | Calculus II                     | Compulsory | 5    | 0   | 5       | 7    | MATH 101      |
| PHYS102  | Physics II                      | Compulsory | 3    | 2   | 4       | 5    |               |
| PHYS108  | Physics-II Laboratory           | Compulsory | 0    | 2   | 1       | 2    |               |
| CE106  | Exploring Profession            | Compulsory | 1    | 1   | 2       | 2    |               |
| GLB1XX   | Global Issues Elective          | Elective   | 3    | 0   | 3       | 4    |               |
| CE104  | Civil Engineering Drawing       | Compulsory | 1    | 2   | 2       | 3    |               |
| ENG102   | English II                      | Compulsory | 4    | 0   | 4       | 4    | ENG 101       |
| CP100  | Career Planning                 | Compulsory | 1    | 0   | 1       | 1    |               |
| <b>Total</b>   |                                 |            | 18   | 7   | 22      | 28   |               |
| Sophomore Year / FALL Semester - 2. SINIF GÜZ YARIYILI     |                                 |            |      |     |         |      |               |
| Code   | Course Name                     | Type       | Lec. | Lab | Credits | ECTS | Prerequisites |
| CE223  | Mechanics                       | Compulsory | 5    | 0   | 5       | 5    |               |
| ECON222  | Economics for Engineers         | Compulsory | 3    | 0   | 3       | 4    |               |
| MATH205  | Differential Equations          | Compulsory | 4    | 0   | 4       | 5    | MATH 102      |
| CE243  | Materials Science               | Compulsory | 2    | 1   | 3       | 4    |               |
| CE261  | Geology for Civil Engineering   | Compulsory | 3    | 0   | 3       | 6    |               |
| GLB2XX-1   | Global Issues Elective          | Elective   | 3    | 0   | 3       | 4    | BRIDGE***     |
| TURK01   | Turkish Language Pool I         | Compulsory | 2    | 0   | 2       | 2    |               |
| <b>Total</b>   |                                 |            | 22   | 1   | 23      | 30   |               |
| Sophomore Year / SPRING Semester - 2. SINIF BAHAR YARIYILI |                                 |            |      |     |         |      |               |
| Code   | Course Name                     | Type       | Lec. | Lab | Credits | ECTS | Prerequisites |
| CE224  | Strength of Materials           | Compulsory | 3    | 2   | 4       | 5    | CE 223        |
| MATH203  | Linear Algebra                  | Compulsory | 3    | 0   | 3       | 5    |               |
| CE244  | Materials of Construction       | Compulsory | 2    | 1   | 3       | 4    |               |
| CE274  | Fluid Mechanics                 | Compulsory | 3    | 0   | 3       | 4    |               |
| CE204  | Numerical Methods for Engineers | Compulsory | 3    | 0   | 3       | 6    |               |
| GLB2XX-2   | Global Issues Elective          | Elective   | 3    | 0   | 3       | 4    | BRIDGE***     |
| TURK02   | Turkish Language Pool II        | Compulsory | 2    | 0   | 2       | 2    |               |
| <b>Total</b>   |                                 |            | 19   | 3   | 21      | 30   |               |

**ABDULLAH GÜL UNIVERSITY / ABDULLAH GÜL ÜNİVERSİTESİ**  
**Civil Engineering Undergraduate Program / İnşaat Mühendisliği Lisans Programı**  
*(Curriculum to be implemented as of 2025-2026 Academic Year Fall Semester)*  
*(2025-2026 Eğitim-Öğretim Yılı Güz Dönemi İtibarıyla Uygulanacak Müfredat)*

| Junior Year / FALL Semester - 3. SINIF GÜZ YARIYILI     |  |            |      |     |         |      |               |
|---|--|------------|------|-----|---------|------|---------------|
| Code  | Course Name  | Type       | Lec. | Lab | Credits | ECTS | Prerequisites |
| CE300   | Summer Practice  | Compulsory | 0    | 2   | 1       | 5    |               |
| MATH301   | Probability and Statistics                             | Compulsory | 3    | 0   | 3       | 5    | MATH 102      |
| CE371   | Hydromechanics   | Compulsory | 3    | 1   | 4       | 5    | CE 274        |
| CE363   | Soil Mechanics   | Compulsory | 3    | 2   | 4       | 5    |               |
| CE383   | Structural Analysis                                    | Compulsory | 4    | 0   | 4       | 5    | CE 223        |
| GLB3XX  | Global Issues Elective                                 | Elective   | 3    | 0   | 3       | 4    | ENG 101       |
| HIST01  | History of Modern Turkey Pool I                        | Compulsory | 2    | 0   | 2       | 2    |               |
| <b>Total</b>  |  |            | 18   | 5   | 21      | 31   |               |
| Junior Year / SPRING Semester - 3. SINIF BAHAR YARIYILI |  |            |      |     |         |      |               |
| Code  | Course Name  | Type       | Lec. | Lab | Credits | ECTS | Prerequisites |
| CE332   | Construction Engineering and Management                | Compulsory | 3    | 0   | 3       | 5    |               |
| CE366   | Foundation Engineering                                 | Compulsory | 3    | 1   | 4       | 5    | CE 363        |
| CE374   | Hydrology and Water Resources Engineering              | Compulsory | 4    | 0   | 4       | 5    | CE 274        |
| CE384   | Reinforced Concrete                                    | Compulsory | 4    | 0   | 4       | 5    | CE 224        |
| CE352   | Introduction to Transportation and Traffic Engineering | Compulsory | 2    | 1   | 3       | 4    |               |
| CENX  | Non-Technical Elective                                 | Elective   |      |     |         | 3    |               |
| HIST02  | History of Modern Turkey Pool II                       | Compulsory | 2    | 0   | 2       | 2    |               |
| <b>Total</b>  |  |            |      |     |         | 29   |               |
| Senior Year / FALL Semester - 4. SINIF GÜZ YARIYILI     |  |            |      |     |         |      |               |
| Code  | Course Name  | Type       | Lec. | Lab | Credits | ECTS | Prerequisites |
| CE403   | Capstone Design  | Compulsory | 0    | 2   | 1       | 7    |               |
| CE493   | Fundamentals of Steel Design                           | Compulsory | 5    | 0   | 5       | 6    | CE 224        |
| CETX1   | Technical Elective                                     | Elective   | 3    | 0   | 3       | 4    | **            |
| CETX2   | Technical Elective                                     | Elective   | 3    | 0   | 3       | 4    | **            |
| CETX3   | Technical Elective                                     | Elective   | 3    | 0   | 3       | 4    | **            |
| CETX4   | Technical Elective                                     | Elective   | 3    | 0   | 3       | 4    | **            |
| OHS401  | Occupational Health and Safety I                       | Compulsory | 2    | 0   | 2       | 1    |               |
| <b>Total</b>  |  |            | 19   | 2   | 20      | 30   |               |
| Senior Year / SPRING Semester - 4. SINIF BAHAR YARIYILI |  |            |      |     |         |      |               |
| Code  | Course Name  | Type       | Lec. | Lab | Credits | ECTS | Prerequisites |
| CE404   | Workplace Experience                                   | Compulsory | 1    | 0   | 1       | 29   |               |
| OHS402  | Occupational Health and Safety II                      | Compulsory | 2    | 0   | 2       | 1    |               |
| <b>Total</b>  |  |            | 3    | 0   | 3       | 30   |               |

\*\*The prerequisites for technical elective courses are given in the table of related courses.

\*\*\*If you did not pass the Prep School directly, then you would take this course Bridge, which you have to pass to be able to take relevant GLB Courses.

**ABDULLAH GÜL UNIVERSITY / ABDULLAH GÜL ÜNİVERSİTESİ**  
**Civil Engineering Undergraduate Program / İnşaat Mühendisliği Lisans Programı**  
*(Curriculum to be implemented as of 2025-2026 Academic Year Fall Semester)*  
*(2025-2026 Eğitim-Öğretim Yılı Güz Dönemi İtibarıyla Uygulanacak Müfredat)*

**Technical Electives**

(4 of these courses must be taken / Bu derslerden 4'ü alınmak zorundadır)

| Code   | Course Name                                      | Lec. | Lab | Credit | ECTS | Prerequisites  |
|--------|--|------|-----|--------|------|--|
| CE 431 | Construction Project Management                  | 3    | 0   | 3      | 4    | -  |
| CE 441 | Materials for Sustainable Built Environment      | 3    | 0   | 3      | 4    | -  |
| CE 442 | Construction Waste Management                    | 3    | 0   | 3      | 4    | -  |
| CE 444 | The Natural and Built Environment                | 3    | 0   | 3      | 4    | -  |
| CE 445 | Sustainable Concrete Technology                  | 3    | 0   | 3      | 4    | -  |
| CE 446 | Laboratory Tests on Civil Engineering Materials  | 3    | 0   | 3      | 4    | -  |
| CE 447 | Admixtures for Concrete                          | 3    | 0   | 3      | 4    | -  |
| CE 448 | Durability of Concrete                           | 3    | 0   | 3      | 4    | -  |
| CE 451 | Railway Engineering                              | 3    | 0   | 3      | 4    | -  |
| CE 452 | Railway Design                                   | 3    | 0   | 3      | 4    | CE 451 Railway Engineering                                     |
| CE 453 | Land Use & Transportation Planning               | 3    | 0   | 3      | 4    |  |
| CE 461 | Foundation Engineering II                        | 3    | 0   | 3      | 4    | CE 366 Foundation Engineering                                  |
| CE 462 | Introduction to GIS                              | 3    | 0   | 3      | 4    | -  |
| CE 463 | Use of In-situ Tests in Geotechnical Engineering | 3    | 0   | 3      | 4    | CE 363 Soil Mechanics  |
| CE 464 | Ground Improvement                               | 3    | 0   | 3      | 4    | CE 363 Soil Mechanics<br>CE 366 Foundation Engineering         |
| CE 473 | Sustainable Energy Resources                     | 3    | 0   | 3      | 4    | -  |
| CE 474 | Engineering for Sustainability                   | 3    | 0   | 3      | 4    | -  |
| CE 475 | Water and Wastewater Treatment Engineering       | 3    | 0   | 3      | 4    | -  |
| CE 476 | Environmental Policy and Politics                | 3    | 0   | 3      | 4    | -  |
| CE 477 | Design of Hydraulic Structures                   | 3    | 0   | 3      | 4    | CE 274 Fluid Mechanics<br>CE 371 Hydromechanics                |
| CE 482 | Computational Structural Analysis and Design     | 3    | 0   | 3      | 4    | CE 383 Structural Analysis                                     |
| CE 483 | Computer Programming in Structural Engineering   | 3    | 0   | 3      | 4    | COMP 103 Art of Computing<br>CE 383 Structural Analysis        |
| CE 484 | A seismic Design of Structures                   | 3    | 0   | 3      | 4    | -  |
| CE 485 | Introduction to Earthquake Engineering           | 3    | 0   | 3      | 4    | -  |
| CE 486 | Introduction to Structural Dynamics              | 3    | 0   | 3      | 4    | MATH 205 Differential Equations,<br>CE 383 Structural Analysis |
| CE 487 | Reinforced Concrete II                           | 3    | 0   | 3      | 4    | CE 223 Mechanics<br>CE 224 Strength of Materials               |
| CE 488 | Introduction to Vibrating Systems                | 3    | 0   | 3      | 4    | MATH 203 Linear Algebra,<br>MATH 205 Differential Equations    |
| CE 489 | Matrix Theory of Structural Analysis             | 3    | 0   | 3      | 4    | MATH 203 Linear Algebra  |
| CE 491 | Introduction to Seismic Base Isolation           | 3    | 0   | 3      | 4    | MATH 203 Linear Algebra  |