Admission Prerequisite

Admission to a Bachelor's degree programme is open only to holders of a state certificate confirming complete general education or an equivalent document who are admitted in accordance with the procedure established by the legislation of Georgia.

• Citizens of Georgia are admitted on the basis of Unified National Examination results.

• International applicants are admitted in accordance with Order No. 224/N of 29 December 2011 of the Ministry of Education, Science, Culture and Sport of Georgia.

A certificate/document confirming English proficiency at B2 level is compulsory. To confirm English proficiency, an applicant must provide one of the following:

• An official international certificate: TOEFL, IELTS, Cambridge ESOL (English for Speakers of Other Languages), TELC (The European Language Certificates), Michigan (Cambridge Michigan).

• A document confirming English proficiency from a secondary school, college or university, certifying that the applicant studied in English.

• A certificate issued by a local or international English language teaching provider confirming that the applicant attained B2 English proficiency by completing the relevant course.

• Applicants unable to provide the above documents must take a test at the GTU Computer Centre confirming English proficiency at B2 level.

Note: The English language requirement may be waived if English is the applicant's native language or if the applicant completed secondary school/university in a country where English is an official language and, consequently, studied in English.

Programme Objective

Objective 1: Using fundamental principles of natural sciences and mathematics, teach graduates modern approaches to managing civil engineering projects and identifying and solving engineering problems in the field, and the latest technical equipment and technologies.

Objective 2: Through understanding fundamental scientific issues of civil engineering, develop practising and innovative engineers who, using appropriate theoretical knowledge and professional competences, can participate in and contribute to addressing social, technical and business challenges in civil engineering.

Objective 3: Establish a solid foundation for graduates to continue studies at the next level in civil engineering and pursue continuous professional development.

Learning Outcomes/Competences (General and Professional)

1. With broad knowledge of fundamental theories of engineering, natural sciences and mathematics, critically understands theories and principles of the field;

2. Explains some modern aspects of civil engineering, including planning, designing and testing buildings and structures and supervising construction;

3. In civil engineering, uses cognitive and practical skills and standard and some modern methods, observing ethical, occupational and safety standards, to solve complex and unforeseen problems that meet requirements for environmental protection, public safety and welfare;

4. In accordance with predetermined instructions, plans and conducts an experiment, implements a practical project, analyses and interprets data, and uses them to formulate appropriate engineering assessments and conclusions;

5. Communicates clearly and comprehensibly with specialist and non-specialist audiences about ideas, existing problems and ways to solve them in the field, using forms appropriate to the context and information and communication technologies;

6. Participates in interdisciplinary teamwork and creates a cooperative environment with team members to complete assigned tasks;

7. Plans continuous professional development, determines personal further learning needs and implements them with a high degree of independence.

Student Knowledge Assessment System

Assessment is based on a 100-point scale.

Positive grades are:

- (A) - Excellent - 91-100 points;
- (B) - Very Good - 81-90 points;
- (C) - Good - 71-80 points;
- (D) - Satisfactory - 61-70 points;
- (E) - Sufficient - 51-60 points.

Negative grades are:

- (FX) - Did Not Pass - 41-50 points, meaning that the student needs more work to pass and is entitled to take one additional examination after independent study;
- (F) - Fail - 40 points or less, meaning that the work completed by the student is insufficient and the student must retake the course.

  If an FX grade is received in a component of the educational programme, an

additional examination is scheduled no earlier than 5 days after the results are announced. The grade obtained in the additional examination is not added to the score obtained in the final assessment. The additional examination grade constitutes the final assessment and is reflected in the final grade for the programme component. If the final grade for the educational component, taking the additional examination grade into account, is 0-50 points, or the student does not meet the minimum competence threshold in the final/additional examination, the student is assigned an F grade of 0 points.
The programme-based assessment of the level of achievement of student learning outcomes in each component comprises an interim assessment and a final examination. The interim assessment includes ongoing activities and a mid-semester examination. Each assessment form and component is assigned a share of the total score (100 points) in the final assessment. Specifically, the maximum interim assessment score is no more than 60, while the maximum final examination score is no less than 40. Each assessment form includes assessment component(s), which include assessment method(s), measured by assessment criteria.
A student may take the final examination if they have obtained at least the minimum positive grade in the interim assessment component(s) in accordance with the course syllabus (at least 30 points in total), and have completed and submitted on time the minimum required assignments in documentary form. Detailed information is available at the following electronic address: Instruction on the Management of the Educational Process at Georgian Technical University

https://www.gtu.edu.ge/uploads/2026/03/educational-process2-1.pdf

Course	Credits
[Calculus C1]	[8]
[General and Inorganic Chemistry A]	[8]
[Fundamentals of Biology]	[6]
[Oral Communication]	[5]
[Georgian History and Culture]	[3]
[Introduction to Philosophy]	[3]
[Sociology]	[3]
[Calculus C2]	[7]
[General Physics 1A]	[7]

[Surveying in Civil Engineering]	[6]
[Interpersonal Communication]	[5]
[Computer Engineering Graphics in Civil Engineering]	[5]
[Introduction to Civil Engineering]	[3]
[Calculus C3]	[8]
[General Physics 2B]	[7]
[Theoretical Mechanics (Statics)]	[5]
[Statistical Methods in Engineering]	[4]
[Technical Communication]	[5]
[Business and Professional Communication]	[5]
[Ordinary Differential Equations]	[5]
[Theoretical Mechanics (Dynamics)]	[5]
[Building Materials]	[5]
[Strength of Materials]	[5]
[Principles of Economics]	[3]
[Construction Methods]	[5]
[Geotechnical Engineering]	[5]
[Fluid Mechanics]	[5]
[Geoinformation Systems]	[6]
[Construction Machinery]	[3]
[Fundamentals of Structural Mechanics]	[6]
[Environmental Engineering]	[6]
[Construction of Transport Infrastructure]	[6]
[Hydrology and Hydrometry]	[6]
[Applied Hydraulics]	[6]
[Design of Buildings and Structures with Reinforced Concrete Structures]	[6]

[Open Channel Hydraulics]	[6]
[Foundation Engineering and Deformation in Structures]	[6]
[Traffic Planning]	[6]
[Water Supply and Distribution Systems]	[6]
[Construction of Hydraulic Structures]	[6]
[Highway Engineering]	[6]
[Democracy and Citizenship]	[5]
[Construction Contracts and Public Procurement]	[5]
[Principles of Marketing]	[5]
[Principles of Construction Cost Estimation]	[4]
[Principles of Construction Economics]	[4]
[Bachelor's Practice]	[5]
[Water Treatment Engineering]	[6]
[Metal Structures]	[6]
[Design of Temporary Structures]	[6]
[Wastewater Treatment Engineering]	[6]
[Irrigation and Drainage]	[6]
[Railway Engineering]	[6]
[Construction Project Management]	[6]
[Solid and Hazardous Waste Engineering]	[6]
[Bridge Engineering]	[6]
[Construction Safety]	[4]
[Bachelor's Project]	[8]
Total	[240]