The study programme in civil engineering explores how buildings and infrastructure facilities are correctly planned, technically implemented, and maintained permanently. Therefore, more and more interdisciplinary trained generalists are needed who understand the way of thinking and the language of the different fields of expertise, in a Master’s degree programme in Construction Technology (Civil Engineering) or in Building Material Engineering.

This content is taught via lectures, tutorials and projects. Excursions and guest lectures offer insight into professional practice.

Prospects after graduation

The modern building industry is characterized by a wide range of tasks and subject areas. Qualified specialists are desperately sought after, as demand is still greater than supply. The aim of our university is to provide engineers with a solid basic knowledge as well as application-ready skills and abilities in order to prepare them for current and future challenges in the planning and maintenance of buildings and structural facilities.

Weimar is located in various fields such as planning offices in structural, civil, transport and hydraulic engineering, companies in the mechanical and plant engineering sector, in the field of building renovation and building maintenance, in planning offices in environmental technology, in the energy and water industry, or export offices as well as in companies in the housing industry and in state and municipal administrations.

Through the increased promotion of interdisciplinary skills, the study programme also represents a systematic perspective for future activities. A successful, above-average degree from the Master’s degree programme is the prerequisite for taking up a doctorate.

Tip: The Bauhaus-Universität Weimar Career Services can answer any questions you may have about starting your career, ausi.uni-weimar.de/careerservice

Admission and applications

You would like to study at the Faculty of Civil Engineering? In our school, infrastructure and the environment is an essential prerequisite for pleasure and success in your studies. Furthermore, you should have solid previous knowledge in the natural sciences.

Our Bachelor’s degree programmes are admission-free, i.e. you can apply here within the specified period on the online application portal of the Bauhaus-Universität Weimar and apply immediately. Whether you meet the formal and subject-specific requirements for a Master’s degree programme at the Faculty of Civil Engineering will be determined by the examination based on the basis of the application documents you submit.

The respective application and admission modalities as well as deadlines for the individual study programmes can be found on our website www.uni-weimar.de/studium.

Digital Engineering

Master of Science

Digitalization is advancing all industrial sectors, from the planning phase, through design and production, to operation and maintenance, virtual product and process models are being networked with one another to increase product quality and optimize processes. Due to the increasing importance of the so-called Industry 4.0, the demand for well-trained specialists working at the interface between computer science and engineering science is growing.

The English-taught Master’s degree programme Digital Engineering prepares you flexibly and interdisciplinary to meet the challenges of tomorrow. The course is aimed at graduates who have obtained a first professionally qualifying university degree, such as a Bachelor’s degree, in the field of civil engineering, mechanical engineering or applied computer science and who would like to expand their specialist knowledge in the respective other discipline. Depending on your previous knowledge, we will develop an individual study plan for you, which is either more engineering or computer science-based. You will then deepen your specialist knowledge in the areas of modeling, simulation and visualization of engineering problems. In addition, we will teach you information theory methods for data generation and processing. Within each area you have the opportunity to set individual priorities.

The teaching is supplemented by a research project, which may be done in conjunction with practical partners, and by elective modules from the Faculty of Media and Civil Engineering or the Language Centre at the Bauhaus-Universität Weimar.

The increasing priority of ecological issues, the increasing importance of the digital economy and the global need for digital solutions is growing.

Our graduates find jobs in various fields such as planning offices in structural, civil, transport and hydraulic engineering, companies in the mechanical and plant engineering sector, in the field of building renovation and building maintenance, in planning offices in environmental technology, in the energy and water industry, or export offices as well as in companies in the housing industry and in state and municipal administrations.

Available degrees

Bachelor of Science (B. Sc.)

The Bachelor’s programme is the entry point for academic education. Students learn the fundamentals of a particular subject during a standard duration of six semesters. Afterwards, students can expand their knowledge by doing a Master’s degree in leading fields of the professional world.

Master of Science (M. Sc.)

A Master’s programme builds on the skills learned during the Bachelor’s degree and is an advanced higher education degree. Students can expand their expertise and explore new approaches within a standard duration of four semesters. Successful completion of a Master’s programme prepares you for various professional positions or an academic career (Ph. D.).

Ph. D. (Dr.-Ing. / Dr. rer. nat.)

A Ph. D. allows you to continue your academic training after a Master’s programme. To be awarded the Ph. D. degree, you must complete a Ph. D. thesis and an oral examination (defence). The Faculty of Civil Engineering awards the following academic titles: Doctor-Ingenieur (Dr. Ing.) or Doctor-Ingenieur (Dr. Ing.)
We shape the future, transcending the boundaries of individual disciplines. The term “Bauhaus” stands for openness, creativity and a drive to experiment. This self-image elevates the university’s research and teaching as well as its collaborations with partner universities all over the world. Its story began in 1919 as the Grand Ducal Art School.

The Bauhaus-Universität Weimar has been building on this history in its own unique way. It is an international university, with its origins in the cultural city of Weimar. Inspired by this great role model, there are over 400 students across six degree programmes and over 500 junior and senior researchers dedicated to finding answers to the central questions of society, technology, science, and art and culture.

Contact and General Academic Advising

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Students present their work
www.uni-weimar.de/dokumente/fachgebiete
www.uni-weimar.de/bauhaus

With its three Bachelor's and five advanced Master's degree programmes, the Faculty of Civil Engineering offers a variety of courses in the fields of construction, mechanics, management, the Earthquake Damage Analysis Centre (EDAC), the Infnity of the lecture halls, seminar rooms, PC pools and administrative areas can be found on Marientor.

The Bauhaus-Universität Weimar provides a wide range of study opportunities, a close-knit study community, and a disciplined and diverse study environment that is sure to satisfy the most diverse academic ambitions. Our current students, and our alumni, are the best proof of this.

The place to be

Whether you are looking for art and culture, a thriving food scene, or exciting nightlife – Weimar has more to offer than just Goethe, Schiller, and the Bauhaus.

One of the highlights of our university is our strong research profile. As a University of Excellence, we have been awarded the highest possible level of funding by the German Federal Ministry of Education and Research (BMBF). This places us on par with the top global universities. In addition, the Faculty of Civil Engineering is ranked in the top 5% of all German universities, and in the top 10% of all universities in Germany. Our research is highly regarded both nationally and internationally.

Founded in 1957, the Faculty of Civil Engineering currently counts the fields of science, computer science, mechanics, construction, material, environment, and management. In addition to traditional and modern engineering methods, the Faculty also draws on neighbouring academic disciplines such as law, economics, and social sciences. This allows it to take responsibility for the entire cycle of the man-made environment and its further development.

University Town of Weimar

Despite its small size and steeply rising centre, Weimar is not just a sleepy provincial town. Whether you are looking for art and culture, a thrilling food scene, or exciting nightlife – Weimar has more to offer than just Goethe, Schiller, and the Bauhaus.

The university campus is located in the heart of Weimar. Surrounded by parks and green spaces you will find university buildings, the dining hall, the examination office and the Central University Services. As a university, we are open and unique in design since just a few minutes walk away. And there is always enough free time for a game of football in the WIB student centre, or a power nap in the nearby student accommodation. And if the sun is high, the ice cream and a beach are just a short walk away.

Weimar is called the University Town of Weimar and is a UNESCO World Heritage Site.

Professorships

Junior Professorships

Bachelor's degree programmes

Civil Engineering

Bauingenieurwissenschaften

-$\times$ 1 Master of Science

Umbrellas and Risks in Structural Engineering

Natural Hazards and Risks in Structural Engineering

Master of Science

Management

Studying at the place where Bauhaus was born

In 1919, what is now the university’s Main Building was the birthplace of the State Bauhaus School. Today, this is one of the influences on the design school of the 20th century. Front-stage figures from a variety of disciplines and countries revolutionized education together with their students.

The Bauhaus-Universität Weimar has been building on this history as its own since 1957. It is an international university, with its origins in the cultural city of Weimar. Inspired by this great role model, there are over 400 students across six degree programmes and over 500 junior and senior researchers dedicated to finding answers to the central questions of society, technology, science, and art and culture.

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