Department of Computer Science

Shaping our future is falling more and more into the hands of those who face the challenges and needs of digital media in a networked knowledge and information society—faster, more efficient, more secure, more intuitive, more functional. The Computer Science department is an interdisciplinary department concerned with the aspects of information processing within the context of digital media, as well as with the concept and development of interactive digital systems.

Informatik (Informatics)
Bachelor of Science

In Weimar, you are studying at the top centre for informatics research and teaching—where you are becoming an expert in a networked information society. In the Informatics Bachelor’s degree programme, you will spend the first three semesters learning the scientific fundamentals of mathematics and computer science. In the second half of the programme, you will choose between two areas of specialization: computer science and media (human-computer interaction and graphic information systems) or security & data science (IT security and data analysis). These two majors allow you to specialize in either technology or science and to concentrate on particular areas of interest.

Human-Computer Interaction
Master of Science

In the English-taught Master degree programme in Human-Computer Interaction, taking both a scientific and a practical perspective, you will tackle current computer science research in the fields of interface design and creating interactive systems, as well as learning the principles of psychology and design theory.

Digital Engineering
Master of Science

The English-taught Master’s degree programme in Digital Engineering combines specialist expertise from the fields of civil engineering and media computer science. The course is aimed at graduates who have an initial professional university degree in civil engineering, mechanical engineering or applied computer science and who want further training in another field. This degree will prepare you for the challenges of the digital age, either in industry or in a research institute.

Computer Science for Digital Media
Master of Science

In the English-taught Master’s degree programme in Computer Science for Digital Media, you will be introduced to current computer science research in the field of interactive digital media. The programme covers the following topics: media science, human-computer interaction, graphic information systems, computer engineering, and the combination of these disciplines. It focuses on providing skills for challenging professional fields requiring creative and reflective ways of thinking, such as cultural management, IT, publishing, film production, distribution, and promotion. The programme is designed to prepare you for a career in the entertainment industry, programming, and editing for radio, print, TV or online. The programme includes a mandatory internship.

Labs

During your Bachelor’s degree programme, you will have access to the following laboratories at the Faculty of Media:

- Electrical engineering laboratory
- Virtual reality laboratory
- Networked media laboratory
- Computer vision laboratory
- Web technology laboratory
- HCI laboratory
- Usability laboratory
- Media laboratory
- Computer graphics laboratory
- Media security laboratory
- Welding pool
- IKT pool

Student projects are a key part of Master’s degree programmes in the Computer Science department. Students work in small groups to develop applied hardware and software solutions, and thus boost their scientific communication and presentation skills as well as their ability to express themselves in writing—all of which will prove essential for their future careers.

Computer Science department

The Informatics Bachelor’s degree programme requires admission, meaning that you can apply via our online portal before the deadline and then matriculate straight away. The examination committee will examine the application documents you submit, and the course requires French skills, and there is a selection process for candidates. The examination committee will examine the application documents you submit, and the course requires French skills, and there is a selection process for candidates. The examination committee will examine the application documents you submit, and the course requires French skills, and there is a selection process for candidates. The examination committee will examine the application documents you submit, and the course requires French skills, and there is a selection process for candidates. The examination committee will examine the application documents you submit, and the course requires French skills, and there is a selection process for candidates. The examination committee will examine the application documents you submit, and the course requires French skills, and there is a selection process for candidates. The examination committee will examine the application documents you submit, and the course requires French skills, and there is a selection process for candidates. The examination committee will examine the application documents you submit, and the course requires French skills, and there is a selection process for candidates. The examination committee will examine the application documents you submit, and the course requires French skills, and there is a selection process for candidates. The examination committee will examine the application documents you submit, and the course requires French skills, and there is a selection process for candidates. The examination committee will examine the application documents you submit, and the course requires French skills, and there is a selection process for candidates. The examination committee will examine the application documents you submit, and the course requires French skills, and there is a selection process for candidates. The examination committee will examine the application documents you submit, and the course requires French skills, and there is a selection process for candidates. The examination committee will examine the application documents you submit, and the course requires French skills, and there is a selection process for candidates. The examination committee will examine the application documents you submit, and the course requires French skills, and there is a selection process for candidates. The examination committee will examine the application documents you submit, and the course requires French skills, and there is a selection process for candidates. The examination committee will examine the application documents you submit, and the course requires French skills, and there is a selection process for candidates. The examination committee will examine the application documents you submit, and the course requires French skills, and there is a selection process for candidates. The examination committee will examine the application documents you submit, and the course requires French skills, and there is a selection process for candidates. The examination committee will examine the application documents you submit, and the course requires French skills, and there is a selection process for candidates. The examination committee will examine the application documents you submit, and the course requires French skills, and there is a selection process for candidates. The examination committee will examine the application documents you submit, and the course requires French skills, and there is a selection process for candidates. The examination committee will examine the application documents you submit, and the course requires French skills, and there is a selection process for candidates. The examination committee will examine the application documents you submit, and the course requires French skills, and there is a selection process for cand...
Bauhaus-Universität Weimar

Architecture and Urbanism, Civil Engineering, Art and Design, and Media – the Bauhaus-Universität Weimar's Faculties give it a profile that is unique in Germany. We shape the future, transcending the boundaries of individual disciplines. The term Bauhaus stands for openness, creativity and a desire to experiment. This self-image draws through in research, art and teaching as well as in collaborations with partner universities all over the world. Its story began in 1919 at the Grand Ducal Art School.

Information and Office Hours
Campus.Office
General Academic Advising
www.uni-weimar.de/professionals.

Studying at the place
where Bauhaus was born

In 1919, what is now the university’s Main Building was the birthplace of the Staatliche Bauhaus, the most influential design school of the 20th century. forefront figures from a variety of disciplines and countercultural revolutionaries came together with their students.

The Bauhaus-Universität Weimar has been building on this history in its own since 1996. It is an international university, very at home in the cultural city of Weimar. Inspired by this great role model, more than 4,000 students across 24 degree programmes and courses of study are used methods to find answers to the central questions of society, technology, science, and art and culture.

Welcome to the Faculty of Media

Creativity, research excellence, strong performance and commitment are the building blocks of the Faculty of Media’s success. This is a key story that has been continued for more than a century. Since it was founded in 1919, the Faculty has stayed true to its university philosophy, using its interdisciplinary nature to create synergies between the theoretical and scientific world and the artistic and experimental one – always in the context of the offerta.

Researching and Teaching

Teaching activities focus on research-oriented and interdisciplinary project studies, i.e. close and concentrated group work on challenging projects with accompanying team spirit and independent action. In addition, our well-equipped laboratories, workshops and seminar rooms are the perfect place to implement personal ideas and successfully complete a course of study.

Excellent supervisory relationships and autonomous project-based courses of study create a working atmosphere to trans innovate and encourage media professionals. Our graduate and professional opportunities in the media, cultural, computing and communications sector, as well as in research and teaching.

Follow your experimentation during and bring your scientific curiosity to life with us. We offer you intellectual freedom and creative development opportunities in an international environment. Welcome to the Faculty of Media!

Detailed information about studying at the Faculty of Media is available at www.uni-weimar.de/medien.

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Students present their work
www.uni-weimar.de/studienleiter

University Town of Weimar

Despite its small size and story book charm, Weimar is not just a sleepy provincial rent. Whether you are looking for art and culture, a thriving food scene, or exciting nightlife – Weimar has more to offer than just Gretl, Schiller, and the Bauhaus. All this and more can be found in Weimar’s city centre, where nothing is more than a two-minute walk away. More than two centuries, four centuries, the German National Theatre, numerous cabinet stages, in addition to student clubs and concert venues speak for themselves.

Startup Hub neudeli

The Startup Hub neudeli at the Bauhaus-Universität Weimar has been the central contact point for students, staff and employees of all four faculties since 2010. It provides lateral Weimar with an attractive, innovative environment for beginning self-employment. True to the tradition of Bauhaus, we need a testing ground for experimentation and trying things out.

The neudeli team provides critical feedback on business ideas and offers support with creating a versatile business model by individual coaching and consulting processes as well as startup-related workshops. The university’s many workshops and exceptional technical equipment with 3D printer and modern computer pools offer excellent opportunities and creative space for design development and prototype construction. Pure startup consulting has since grown into internal teaching and research activities that have been incorporated into numerous collaborations.

This focuses on prototyping as part of the innovation process, as well as on new critical approaches to management research in the field of creative management.

Digital Bauhaus Lab

The Digital Bauhaus Lab is an interdisciplinary research centre where artists and computer science and civil engineering researchers can address the challenges of an information society. The research building has technologically advanced large-scale equipment such as interactive displays, a computer cluster and an interface development laboratory.

For example, the Digital Bauhaus Lab focuses on hardware and software development for modern user interfaces. The interface development laboratory and a high-resolution visual analytics laboratory provide the perfect symbiosis for this field of research.

On the ground floor, the focus is on social interaction and humans as the object of investigation. Two computer clusters in the building’s basement enable competitive research in the field of big data analytics and high performance computing for engineering simulations.

One technical highlight is a multi-touch 3D display – the only of its kind in the world. It is particularly useful for visualising complex spatial situations. Engineers and computer scientists can thus work together on a virtual construction site.

The Digital Bauhaus Lab offers access, up to 50 m² of laboratory space for research and final projects, including:
- User interface development laboratory
- Human-computer interaction laboratory
- Computer vision laboratory
- Computer graphics laboratory
- Virtual reality laboratory
- Multi-touch 3D display
- Visual analytics display

Further information is available at: www.digital-bauhaus-lab.de.