



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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Master's degree



Computer Science for Digital Media

Bauhaus-Universität Weimar • Weimar



Overview

Degree	Master of Science (MSc)
Teaching language	<ul style="list-style-type: none">English
Languages	Courses are held in English (100%).
Full-time / part-time	<ul style="list-style-type: none">full-timepart-time (study alongside work)
Programme duration	4 semesters
Beginning	Winter and summer semester
Application deadline	<p>Applicants who graduated outside the European Union: 15 July for the following winter semester 15 January for the following summer semester</p> <p>Applicants who graduated within the EU: 30 September for the following winter semester 31 March for the following summer semester</p>
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No

Description/content	In the Computer Science for Digital Media Master's degree programme, which is taught in English, students are introduced to advanced topics in computer science, focusing in particular on data science and the applications of computer science to digital media. Professors and lecturers offer advanced courses, hands-on research projects, and Master's theses in their fields of expertise, including:
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- Applied Mathematics
- Computer Vision in Engineering
- Machine Learning and Natural Language Processing
- Computer Graphics and Computer Gaming
- Human-Computer Interaction
- Software Engineering
- Media Security
- Virtual Reality and Visualisation
- Usability
- Algorithm Engineering

The infrastructure in Weimar is state-of-the art. Advanced labs are available and accessible to the students, allowing students to work in the above-mentioned research fields. Research projects and Master's thesis projects are supported and advised by professors and the academic staff. Students get involved in current research and development projects during their studies. The Master's programme gives students the opportunity to cooperate and co-author international publications. Teaching and research assistantships as well as other jobs are available at the university and with local companies.

Well-trained specialised computer science experts are in high demand both in Germany as well as on the international job market. Since this programme combines advanced computer science with application-oriented project work, our graduates easily find employment in the telecommunications, gaming and entertainment industries as well as in social media companies, content processing companies, cybersecurity companies and in all manufacturing companies in the process of integrating digital data in their production processes. Our alumni report that MSc graduates often find employment in R&D departments in various industries as well as at large research institutes (e.g., Fraunhofer) or at universities and tertiary educational institutions, where they often pursue a doctoral degree.

Course Details

Course organisation

The programme consists of three main research modules. Two modules, "Security and Data Science" and "Graphical and Interactive Systems", lay the foundation on advanced subjects for the study course. In the third "Specialisation" module, students are required to visit additional courses from either of the two subject groups above to further deepen their knowledge according to their preferred specialisation.

Electives modules allow students to deepen their expertise in the above areas or widen their expertise by taking courses from other departments of the university. Students are also allowed to take language courses to broaden their personal skills, e.g., through courses in German for non-native speakers or courses in academic English for non-English native speakers.

In the second and third semesters, students participate in two research projects. Each project takes two fifths of the workload of the semester. In projects, which usually take place at the department labs and are mentored by researchers, students receive one research theme that they have to develop, conclude and document within the semester. Project work is done in groups, so that students also acquire key skills such as project organisation, collaboration, communication, presentation, and scientific writing.

The final Master's project begins with an initial research phase, which takes place in the second half of the third semester. At the end of the third semester, students complete a literature overview to nail down the specific topic for their theses. The last semester is dedicated to work on the Master's thesis: a final university-wide presentation of the achieved work is required to achieve the Master's degree.

» [PDF Download](#)

A Diploma supplement will be issued

Yes

International elements	<ul style="list-style-type: none"> • Language training provided • Projects with partners in Germany and abroad
Course-specific, integrated German language courses	No
Course-specific, integrated English language courses	Yes

Costs / Funding

Tuition fees per semester in EUR	None
Semester contribution	Enrolment fees amount to approx. 200 EUR per semester. This is a contribution to student services and the student council. It includes free regional transport by buses in Weimar, Erfurt, Jena and Gera as well as by regional trains in Thuringia, student discounts for meals at the university cafeteria and for theatre and museum tickets, access to the university sports complex and buildings. The additional fee for the "Thoska" student ID is 20 EUR (a one-time only fee).
Costs of living	<p>In Weimar, living expenses tend to be lower than in larger German cities. We recommend for students to budget about 861 EUR per month:</p> <ul style="list-style-type: none"> • Health insurance approx. 100 EUR • Books and stationery approx. 70 EUR • Rent approx. 291 EUR • Meals approx. 200 EUR • Other expenses approx. 200 EUR
Funding opportunities within the university	Yes
Description of the above-mentioned funding opportunities within the university	<p>There are scholarships granted by the university as an institution. Additionally, the International Office grants scholarships that support international students and students going abroad for studies or internships.</p> <p>https://www.uni-weimar.de/en/university/studies/financing-your-studies/financing-opportunities/</p>

Requirements / Registration

Academic admission requirements	<p>The prerequisite for admission to the Master's degree programme is a Bachelor of Science degree (including a Bachelor's thesis) in computer science, media informatics, media technology or related fields such as electrical engineering, physics, or mathematics with a strong focus on computer science.</p> <p>FAQ on the application to Computer Science for Digital Media: https://www.uni-weimar.de/en/media/studies/computer-science-for-digital-media-msc/application-faqs/</p>
Language requirements	Applicants must provide proof of English at level B2 (Common European Framework of Reference

for Languages – CEFR). Equivalent tests:

- IELTS (minimum 6.5 points – at least 6.0 in each band of reading, writing, speaking, and listening)
- TOEFL (Internet-based) minimum 85 points

German level A1 is recommended but is not a requirement.

In order to register for the Master's thesis, students must provide proof of English at level C1 (CEFR). As part of our study programme, we offer advanced English classes up to level C1, which count towards the degree.

Application deadline

Applicants who graduated outside the European Union:

15 July for the following winter semester

15 January for the following summer semester

Applicants who graduated within the EU:

30 September for the following winter semester

31 March for the following summer semester

Submit application to

Prospective students who have obtained their first university degree **outside the European Union (EU)**, must apply via: www.uni-assist.de.

Applicants who graduated within the EU and **do not need a visa** should apply online at: <https://www.uni-weimar.de/online-bewerbung>

Services

Possibility of finding part-time employment

A part-time job can be a good way to finance your studies. There are opportunities for students who are looking for teaching and research assistantships at the university or part-time jobs with local companies. Be sure to check the [job openings](#). Jobs are offered on the "Pinnwand" message board, on the job portal operated by the [Career Service](#) and by the "Studierendenwerk Thüringen" Student Service.

Weimar is a small town with few jobs for students. Although basic English is spoken nearly everywhere, as the historic city of Weimar attracts many visitors from all over the world, you have to speak German very well to have a chance to find a job.

International students are only permitted to work in Germany with a work permit.

Accommodation

You can find accommodation in Weimar through Thuringia's student services ("Studierendenwerk Thüringen"). More than 1,000 apartments in the city are administered by Thuringia's student services. These residences are at various locations, and they cater to different needs and preferences. Costs for accommodation range between 250 and 350 EUR per month depending on size and location. The university itself does not provide accommodation.

Further information: <https://www.stw-thueringen.de/en/housing/residential-homes.html>

Online application: <https://www.stw-thueringen.de/en/housing/application/online-application.html>

Typically, between two and up to five students share an apartment. Students have their own bedrooms and share a kitchen and a bathroom. Most rooms are furnished (bed, desk, chair, cupboard, shelf), but kitchenware and appliances are not included. Mentors for international students provide assistance in settling in during the first couple of days and also organise events.

Students advertise private and shared flats on the message board ("Pinnwand") on the university website: <https://www.uni-weimar.de/de/universitaet/aktuell/pinnwaende/bereich/wohnen/>.

Career advisory service

The Careers Service of Bauhaus-Universität Weimar offers individual career consultation, etc.
<https://www.uni-weimar.de/en/university/studies/careers-service/>

Support for international students and doctoral candidates

- Welcome event
- Buddy programme
- Tutors
- Specialist counselling
- Visa matters
- Accompanying programme

Supervisor-student ratio

The supervision ratio for 2021 was 10.7, i.e. 10.7 students per academic staff member.

Bauhaus-Universität Weimar



Main building of Bauhaus-Universität Weimar (UNESCO World Heritage Site)

© Marcus Glahn, Bauhaus-Universität Weimar

Bauhaus-Universität Weimar is a small and very international university with a highly distinctive spectrum of subjects. Situated in the historic city of Weimar, Germany, it originated from two progressive institutions: The "Weimar Saxon-Grand Ducal Art School" and the "Staatliches Bauhaus".

Different personalities from various countries have shaped the institution and developed ideas known and respected worldwide. At Bauhaus-Universität Weimar, we continue to follow a unique path that offers unparalleled opportunities by combining science and technology with art and design.

We see our university as a "Bauhaus of the 21st century" – open, experimental, innovative in the technical as well as in the aesthetic sense, and free from any imitation of the past. The university's main fields of study and research are architecture, civil engineering, art and design as well as media.

We offer an ideal space for creative academic and artistic work, supported by laboratories, workshops, studios, libraries, online teaching facilities and a favourable student-teacher ratio. Bauhaus-Universität Weimar is connected worldwide due to a large network of partners, which our students benefit from through programmes such as study abroad periods as well as international projects and excursions. Among more than 200 international partners are universities and schools in Ethiopia, France, Italy, Japan, Romania, the Russian Federation, Switzerland, and the USA.

Here are some important facts from the history of the university: In 1919, Walter Gropius created the "Staatliches Bauhaus" in Weimar. Four years later, he called for the search for the "new unity of art and engineering". That meant combining the vanguard of art and design with modern industry. With this approach, the Bauhaus became the most famous school of architecture, art, and design in the 20th century.

Our university flourishes through its experimental environment, familiar atmosphere and especially through the people, who study, research and work here at the university. The best way is to experience this special atmosphere yourself. Join our "Welcome to Weimar" online crash course or visit us, for example, at the annual Bauhaus Summer School and learn about what lies behind the following numbers:

Four faculties – Architecture and Urbanism, Civil Engineering, Art and Design, Media
47 degree programmes
Approx. 4,100 students including doctoral students
Approx. 27% international students
84 professors
More than 200 partner universities and more than 500 student exchanges

<https://www.uni-weimar.de/en/university/international/to-weimar/fulltime-students/preparing-your-studies/>



University location

The historic city of Weimar is a cosy town that has had a profound influence on Europe. This becomes most evident in architecture, art and design, music, and literature.

Weimar is situated right in the middle of Thuringia, the "green heart of Germany", and it is about 300 km from both the German capital, Berlin, and the German financial centre, Frankfurt am Main. Today, Weimar is a lively town with about 65,000 inhabitants and a town centre where you can reach everything within 15 minutes. The green areas of the town, such as the park on the river Ilm, include many sights, e.g. Goethe's summer house and the palaces of Tiefurt, Ettersburg, and Belvedere. Among many others, the famous German writers Johann Wolfgang von Goethe and Friedrich Schiller walked in the park along the River Ilm. The famous pianist and composer Franz Liszt stimulated modern music, and the architects Walter Gropius and Henry van de Velde initiated modernism.

Weimar has much to offer for art lovers and culture lovers, revellers, lovers of nature, and gourmets. There are more than 20 museums, three cinemas, a national theatre and various cabaret theatres, student clubs, concerts, and multifaceted cultural events such as the traditional folk event and the "Zwiebelmarkt", not to mention Thuringian delicacies like "Rostbratwurst" (sausage), "Rostbrätel" (marinated grilled meat), and "Thüringer Klöße" (dumplings). During the summer, Weimar hosts the annual Bauhaus Summer School, Yiddish Summer Weimar (featuring klezmer music), and several art festivals. Other highlights include the "backup" film festival and Master classes at the "Hochschule für Musik Franz Liszt". In the "International Student Barometer" survey, 95.4 percent of international students commend the exceptional quality of life in the city of Weimar. We hope to welcome you to Weimar soon!

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🌐 Course website: <https://www.uni-weimar.de/de/medien/studium/computer-science-for-digital-media-msc/>

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