



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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Master's degree



Human-Computer Interaction (HCI)

Bauhaus-Universität Weimar • Weimar



Overview

Degree	Master of Science
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
Additional information on beginning, duration and mode of study	Semesters begin in April or October. The programme is run on-site on campus.
Application deadline	<p>Applicants who graduated outside the European Union: 15 July for the following winter semester 31 December 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 English-language Human-Computer Interaction (HCI) Master of Science programme, students acquire sound knowledge on theoretical and practical state-of-the-art methods and

technologies in the fields of interface design, usability and interactive system development with a focus on technical aspects. The research-oriented programme is taught by internationally renowned professors. It also offers students the opportunity to participate in interdisciplinary research and design projects. As part of their electives, students can attend courses from the Computer Science for Digital Media Master's degree programme as well as from all non-Computer Science degree programmes at the university, including Art and Design, Media Studies, Media Management, and other faculties of Bauhaus-Universität Weimar.

The international Master's degree programme is accredited by ACQUIN. It has already attracted students from all over the globe.

The programme is based on the following pillars:

- (a) The study of current topics within the field of human-computer interaction and psychology: usability and user study methods; user-centred design and user interface testing; innovative interface technologies in virtual reality, computer vision and image analysis, adaptive systems, mixed reality, ubiquitous computing, and graphic interfaces
- (b) Acquisition of key skills and competences through a project-based study approach that includes active training of scientific communication, presentation, and written skills in small groups

Students work in modern laboratories of the research groups at the Digital Bauhaus Lab and other on-campus buildings, which provide an excellent infrastructure including highly precise eye tracking equipment, 3D printers and other rapid prototyping technologies, unique multi-user stereoscopic projection, latest generation of head-mounted displays, a high resolution tiled display wall with multi-touch, 3D scanners, various unmanned aerial vehicles, and more. They are regularly involved in research and development projects during their studies and in international publication activities. Good students may also find teaching and research assistantships or other jobs at the university and with local companies.

Usability is becoming ever more important for computer systems, particularly as ubiquitous computing becomes pervasive. The ability to design complex systems and user interfaces with regard to usability and appropriateness for the usage context increases in importance. Job adverts for software developers often request knowledge of usability and interface design. Our graduates can work both in software development, in particular in conception and development of novel interface technologies, and in the area of usability and user research, which are both growing in demand.

Course Details

Course organisation

The Master's programme comprises lectures, tutorials, seminars, and two student research projects as well as a Master's thesis. Students can choose from various specialised fields for the Master's thesis topic.

The programme comprises 120 ECTS, divided into the following compulsory, elective, and research components:

- "HCI Fundamentals" and "HCI Technologies" are covered with four modules: Psychology, HCI Concepts and Methods, Visual Interfaces and Computer Vision. Within each module, students can choose one of two courses on offer. Each module has six ECTS (24 ECTS in total).
- A specialisation module in which students choose one further course out of those offered for "HCI Fundamentals" and "HCI Technologies"
- A Design Theory course, offered at the Faculty of Arts + Design
- Elective module (24 ECTS in total)
- Two research projects comprising (12 ECTS + 18 ECTS) done in small groups (30 ECTS in total)
- The Master's thesis module (30 ECTS)

Research projects are offered by our professors and research groups every semester.

The electives module (24 ECTS) allows students to incorporate a large variety of courses from other degree programmes and faculties alongside the general Computer Science for Digital Media course catalogue. This can be a range of courses from the fields of media studies, media art and design, media management as well as from architecture and urbanism, art and design or civil engineering. An additional project that relates to HCI and comprises a maximum of 15 credit points may also be

done.

The third semester is an ideal semester for students to spend abroad, since it offers greater flexibility with respect to the choice of classes. The fourth and final semester is reserved for the Master's thesis project.

The standard duration of studies for the Human-Computer Interaction Master's degree programme is four semesters, leading to the award of a Master of Science degree. All Master's courses are offered in English.

For information about part-time studies, please contact the International Counsellor for details: <http://www.uni-weimar.de/de/medien/international>

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 in computer science, media informatics, media technology, or related fields with a strong component of computer science.</p> <p>English skills at level B2 (CEFR)</p> <p>FAQ on the application: https://www.uni-weimar.de/de/medien/studium/medieninformatik-computer-science-for-digital-media-hci/faq-application-hci/</p>
Language requirements	<p>Applicants must provide proof of English at level B2 (Common European Framework of Reference for Languages - CEFR). Equivalent tests: IELTS (minimum 6.5 points) or TOEFL (Internet-based) minimum 85 points.</p> <p>In order to register for the Master's thesis, students must provide proof of English at level C1 (CEFR) and German A1. As part of our study programme, we offer advanced English classes up to level C1, which count towards the degree. The university offers German language courses.</p>
Application deadline	<p>Applicants who graduated outside the European Union:</p> <p>15 July for the following winter semester</p> <p>31 December for the following summer semester</p> <p>Applicants who graduated within the EU:</p> <p>30 September for the following winter semester</p> <p>31 March for the following summer semester</p>
Submit application to	<p>Prospective students who have obtained their first university degree outside the European Union (EU) must apply via www.uni-assist.de.</p> <p>Applicants who graduated within the EU and do not need a visa should apply online at http://www.uni-weimar.de/online-bewerbung.</p>

Services

Possibility of finding part-time employment	<p>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.</p> <p>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.</p> <p>International students are only permitted to work in Germany with a work permit.</p>
Accommodation	<p>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.</p> <p>Further information: https://www.stw-thueringen.de/en/housing/residential-homes.html</p> <p>Online application: https://www.stw-thueringen.de/en/housing/application/online-application.html</p>

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

- Tutors
- Welcome event
- Buddy programme
- 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.



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Mark Eisenberg
(Ireland)
MSc

The HCI programme at Bauhaus-Universität Weimar is perfect for those who want to strengthen their academic profile and put their best foot forward in the search for a postgraduate career. My BSc in Digital Media Design was a mixture of computer science, product design and sociological research, and I found the HCI curriculum to be a fitting progression.

Bauhaus-Universität Weimar



The main building of Bauhaus-Universität Weimar – A 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/>



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/human-computer-interaction-msc/>

📘 <https://www.facebook.com/bauhausuni/>

🐦 https://twitter.com/bauhaus_uni

📷 https://www.instagram.com/bauhaus_uni/

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