

MEDIA

MEDIEN- INFORMATIK

—
B. Sc.

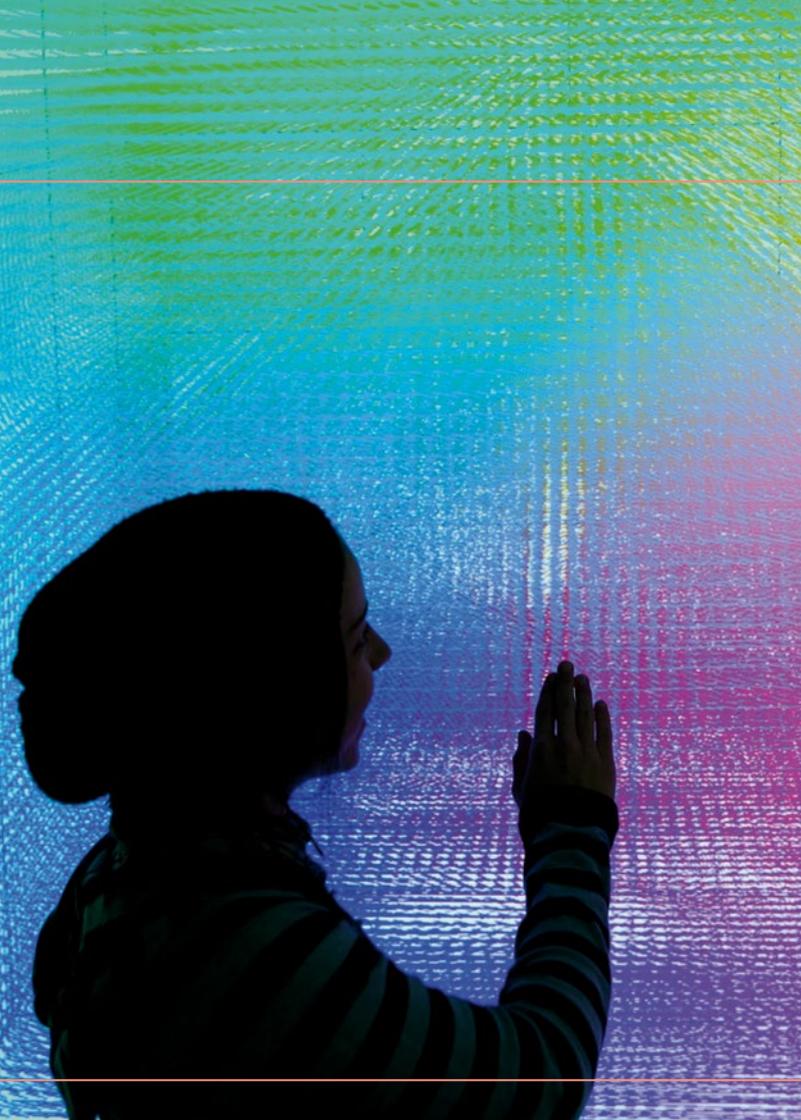
Bauhaus-Universität Weimar

English
version

Degree Programme »Medieninformatik«

How does secure online banking work? How can we combat vandalism online? What will the user interfaces of the future look like? And how does communication in ad-hoc networks work? In Weimar, you are part of future innovations. You are studying at a top centre for informatics research and teaching, and becoming experts in a networked information society.

The German-language Degree Programme »Medieninformatik« in Weimar provides you with a foundation of software and system development skills for digital media. Once you have learnt the basics of informatics, mathematics and media informatics at the beginning of your course, you can dive into the second half: you and your fellow students work together to develop applied hardware and software solutions in two major projects. The projects take up 10 to 15 hours a week and provide an insight into the everyday professional lives of media informatics specialists.





More **information**
is available at

www.bite-the-bytes.de ›

Facebook
@Medieninfor-
matik.BauhausUni

Instagram
@medieninfor-
matik.weimar

Informatics is an interdisciplinary field that has permeated every part of our society, so the requirements that media informatics specialists have to fulfil are correspondingly diverse. And this is exactly what we prepare you for: in addition to excellent specialist training, we place a strong emphasis on teaching soft skills. Through project work, you will learn to work in a team, identify and solve problems, be flexible in the face of change, present results, and collaborate with people from other disciplines (such as art and design). There is a long tradition of this at the Faculty of Media and the Bauhaus-Universität Weimar.

»What I like most about Media Informatics is that it is not as theoretical as you might think to start with. At first it just makes you think of nerds, numbers and maths. Although that is a major part of the programme, projects give you easy practical experience of how things work – and some areas of Media Informatics can be very creative. That suits me very well!«

Basti, student on the Bachelor's degree programme
»Medieninformatik«

What does the course offer me?

| | FORMAL FOUNDATIONS | | APPLIED INFORMATICS | | | PROJECT AND INDIVIDUAL WORK | | | ECTS |
|----|--|--|---|---|--|---|---|--------|------|
| B1 | MATHEMATICS I Linear algebra | INFORMATICS STRUCTURES Discrete structures | PRACTICAL INFORMATICS Fundamentals of Informatics | Modelling information systems | Introduction to programming 15 | | MEDIA Media industry | Σ 28.5 | |
| B2 | Analysis 9 | Algorithms and data structures 12 | SOFTWARE Fundamentals of programming languages | | | HUMAN-COMPUTER INTERACTION Perception and cognition | TECHNICAL INFORMATICS Information and coding Media law 6 | Σ 28.5 | |
| B3 | MATHEMATICS II Numerics | THEORETICAL INFORMATICS Formal language | Software design 10,5 | INFORMATION SYSTEMS Databases | COMMUNICATION SYSTEMS Parallel and distributed systems | Human-computer interaction 9 | Electrical engineering 9 | Σ 31.5 | |
| B4 | Stochastics 9 | Complexity theory 9 | | Fundamentals of web technology 9 | Cryptography and media security 9 | FIRST PROJECT 15 | | Σ 33.0 | |
| B5 | | | VISUAL COMPUTING Computer graphics | Computer vision 13,5 | ELECTIVE | SECOND PROJECT 15 | | Σ 30.0 | |
| B6 | | | Visualisation | | 15 | BACHELOR MODULE 15 | | Σ 28.5 | |

Please consider that classes are held in German.

The image represents a potential course of study which may vary accordingly.

How do I apply?

The Bachelor's degree »Medieninformatik« can be begun every **winter semester**.

Videos from students and **insights into »Medieninformatik« projects** from the course can be viewed on our Vimeo channel at

vimeo.com/album/2615571

The course is designed as a foundational Bachelor's degree which can be followed by a (consecutive) Master's programme that builds on the content. There are no admission restrictions.

You can submit your application online by the end of September in the relevant year.

You will need:

- > A yen for the intellectual challenges of an innovative information society
- > A passion for tinkering, testing and researching
- > Curiosity and creativity
- > Willingness to tackle complex relationships

Current **application and registration deadlines** and the **online application** route can be found at

uni-weimar.de › *Media* › *Media Informatics* ›

If you have any further questions, please contact our **academic advisor** at mi-info@medien.uni-weimar.de



- > Capacity for teamwork and openness to collaborating with a variety of disciplines
- > Independence and individual responsibility
- > A solid understanding of mathematics
- > Capacity for logical and abstract thinking
- > Programming skills are not mandatory
- > Good English skills would be an advantage

And after studying?

Summaery, the university's annual exhibition, offers an opportunity to present what you have developed to people outside of the course.

A media informatics specialist's job includes analysing, formalising and developing potential solutions for problems from fields not closely related to informatics, comparing the advantages and disadvantages of various solutions, and ultimately developing a solution.

Analysing, designing and implementing media informatics systems is generally something that is done in teams as project work. Collaborating in a working group, constructively tackling ideas and criticism within the working group, and agreeing and keeping to deadlines are all key skills that we will teach you as part of the programme.

You will also learn how to react flexibly to changes in a working environment driven by innovation, discover knowledge gaps and close them yourself – which is just what the modern professional world is looking for!

With a degree in »Medieninformatik«, you could work as a:

- > Software developer
- > Interface designer
- > Web developer
- > Company IT security expert
- > Management consultant in the IT sector
- > Games developer
- > University or industry researcher
- > Freelancer

Moreover, there is a variety of opportunities for you to undertake a Master's degree in fields of applied informatics in Weimar or elsewhere. At the Faculty of Media, we offer two English-language research-oriented Master's courses in the fields of Computer Science for Digital

Media and Human-Computer Interaction. The English-language Master's degree in Digital Engineering is offered jointly with the Faculty of Civil Engineering.



The university town of Weimar

Weimar has a tradition of new beginnings. Student life in Weimar is a unique contemporary microcosmos aware of the great historic avant-garde – German democracy, Bauhaus, and Classicism were all born here.

Many small and large initiatives – temporary showrooms, project workshops, the University gallery [marke.6](#), the SpaceKidHeadCup soap-box derby created by students, and the student-organised [backup_festival](#) for short films – all expand the cultural spectrum of major institutions such as the Klassik Stiftung Weimar, the German National Theatre, the Buchenwald Memorial, the Goethe House, the Bauhaus Museum.

Four cinemas, numerous cabarets, more than 20 other museums, and various student clubs and concerts spectacularly highlight Weimar's importance as the former cultural capital of Europe.



Weimar is a town of manageable size and short distances, meaning that you can get anywhere quickly and easily by bicycle or on foot.

uni-weimar.de >
weimar-for-students



General Academic Advising

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Germany

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e-mail studium@uni-weimar.de

Information and opening hours can be found here:

www.uni-weimar.de/advising

Media Informatics Academic Advising

e-mail mi-info@medien.uni-weimar.de

Subject to change. For up-to-date information check:

www.uni-weimar.de/medieninformatik

Bauhaus-Universität Weimar › **Editors:** Tina Meinhardt, Lisa Hager

› **Layout and setting:** University Communications › **Photos:** Henry Sowinski (Cover), Thomas Müller (page 2), Candy Welz (page 8)

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