



# HSD

Hochschule Düsseldorf  
University of Applied Sciences



Faculty of Media

**Master of Science**

# Media Informatics

## Profile

Media informatics is a practice-oriented, technical and scientific discipline. It is characterised by its strong interdisciplinary relationship to the various areas of media design and digital media production.

Alongside subject-specific methodology, media informatics specialists also require an understanding of and ability to communicate with the neighbouring disciplines: media design and production.

Today, media technology is available almost anywhere any time. Ever-growing user groups access multimedia services worldwide. Thus, media informatics has become an increasingly important business area in the global market.

Demand for well-educated media informatics experts in diverse positions across different sectors is therefore getting more urgent.

The master's programme Media Informatics expands and consolidates your knowledge and skills in the field of informatics, particularly in digital media. It provides two specialisation options to choose from: virtual environments or digitalisation in multimedia systems.

You can put together your own individual profile choosing courses from an extensive list of courses. This list contains topics which each focus on a different area, e.g. multimedia communications, the human factor in information security, mobile systems, computer animation, virtual reality and augmented reality systems as well as digital image and video engineering or sound engineering.

**Please note:** The language of instruction is mainly German. Supervision can be provided in English.

## Career Options

The master's programme Media Informatics qualifies you for demanding specialist and management tasks in the area of media informatics – e.g. in advanced Web 2.0 architectures, interface and security engineering, mobile applications or the development of virtual environments and productions in the virtual studio. Conception and implementation of special software components in multimedia communications or video and audio technology are also relevant for graduates of this programme.

Possible areas of employment are, e.g.: software development and software architecture, usability, media installations, sound engineering, virtual reality, computer animation, e-business and security, video and broadcasting, multimedia networks.

## Admission Requirements

Please check if you meet all requirements for admission to the study programme. Further information:

[medien.hs-duesseldorf.de/mmi-en](http://medien.hs-duesseldorf.de/mmi-en)

# SYLLABUS

(3 semesters if you have completed a 7-semester bachelor's programme of 210 credits; otherwise 4 semesters.)

## SEMESTER 1

- Theoretical Informatics
- Master's Project 1
- Compulsory Elective Modules 1–3

## SEMESTER 2

- Advanced Software Engineering
- Master's Project 2
- Compulsory Elective Modules 4–6

## SEMESTER 3

(only in case of a 4-semester programme)

- Individual Project
- Master's Project 3
- Compulsory Elective Modules 7–8

## SEMESTER 3 OR 4

- Master's Thesis, Colloquium

### **Compulsory Elective Modules:**

Multimedia Communications | Usability Engineering and User Experience | Advanced User Interfaces | Multimedia Data Analysis for Web Applications | Interactive Visualisation | Philosophy and Media Engineering | Intelligent Systems | Interactive Virtual Studio | Virtual Reality and Augmented Reality Systems | Real-Time Rendering | Computer Animation | Character Production | Ambient Assisted Living | Music Informatics | Media Concepts | The Human Factor in IT Security | Virtual Acoustics | Digital Audio Signal Processing | Industrial Sound Design | Distributed Collaborative Systems | Scientific Methodology | Mobile Systems | Media Installations | Qualitative and Quantitative Methods | Advanced Image Processing | Digital Storytelling | Design Thinking | Selected Topics in Multimedia Systems | Selected Topics in Virtual Environments | Digital Literacy | Corporate Learning

## Further Information

### Faculty contact:

[mmi.medien@hs-duesseldorf.de](mailto:mmi.medien@hs-duesseldorf.de)

[medien.hs-duesseldorf.de/studium/beratung-vor-dem-studium](https://medien.hs-duesseldorf.de/studium/beratung-vor-dem-studium)

About the programme, admission requirements and application:

[medien.hs-duesseldorf.de/mmi-en](https://medien.hs-duesseldorf.de/mmi-en)

## Get in Touch

### Admissions Office

[zulassung@hs-duesseldorf.de](mailto:zulassung@hs-duesseldorf.de)

[hs-duesseldorf.de/zulassungsstelle](https://hs-duesseldorf.de/zulassungsstelle) (in German only)

### Student Advisory and Counselling Service (ZSB)

[studienberatung@hs-duesseldorf.de](mailto:studienberatung@hs-duesseldorf.de)

[hs-duesseldorf.de/zsb-en](https://hs-duesseldorf.de/zsb-en)

### International Office (IO)

[international-office@hs-duesseldorf.de](mailto:international-office@hs-duesseldorf.de)

[hs-duesseldorf.de/io-en](https://hs-duesseldorf.de/io-en)

### Family Support Centre

[familienbuero@hs-duesseldorf.de](mailto:familienbuero@hs-duesseldorf.de)

[hs-duesseldorf.de/fam-en](https://hs-duesseldorf.de/fam-en)

### Disability Services (ABS)

[barrierefrei@hs-duesseldorf.de](mailto:barrierefrei@hs-duesseldorf.de)

[hs-duesseldorf.de/abs-en](https://hs-duesseldorf.de/abs-en)

### Psychological Counselling Service (PSB)

[info.psb@hs-duesseldorf.de](mailto:info.psb@hs-duesseldorf.de)

[hs-duesseldorf.de/psb-en](https://hs-duesseldorf.de/psb-en)

## HSD Invites You

Visit us! Join courses during our yearly trial week (*Schnupperstudium*) and attend our information events (e.g. *Studio5-Infotag*, *Tag der offenen Tür*, *Hochschul-informationstage*, *Wochen der Studienorientierung*).

Information on all events (in German only):

[hs-duesseldorf.de/zsb\\_veranstaltungen](https://hs-duesseldorf.de/zsb_veranstaltungen)

HSD on social media  
[facebook.de/hsduesseldorf](https://facebook.de/hsduesseldorf)  
[instagram.com/hsduesseldorf](https://instagram.com/hsduesseldorf)

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