

# Digital Transformation

Fachhochschule Dortmund (University of Applied Sciences and Arts)  
Master of Science



## General

### The program qualifies for being a leading expert in digital transformation projects

The study program Master Digital Transformation – MDT – will lead to a university degree which is highly qualified academically and professionally.

The program qualifies for being a leading expert in digital transformation projects. The focus is the technical viewpoint – especially the process, methods and tools of software engineering and the development and application of digital systems. For the digital transformation the ability to work in cross-domain projects, to apply a system's engineering approach, to involve users and stakeholders in the projects and to integrate results from different domains is required.

#### Overview

**Faculty:** [Faculty of Computer Science](#)

**Course of study:** [Digital Transformation](#)

**Academic degree:** Master of Science (M.Sc.)

**Standard program duration:** 4 Semesters

**Social contribution:** 299,40 €

**Language of instruction:** English

**Admission:** unrestricted with pre-check and an overall grade of at least 2,5

**Start of studies:** Winter

**Application EU citizen:** Mid May to 15 July

**Application non-EU citizen:** 1 April to 15 June

## Fachhochschule Dortmund

University of Applied Sciences and Arts

### Contact

#### Student Advisory Service

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#### Course Coordinator

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#### [Website >](#)

## Content

### Digital Transformation deals with problems like...

- how to develop complex software systems
- how to apply user-centered design methods to get users involved
- how to evaluate and use tools for software engineering
- how to lead cross-domain designs of digital systems

The Master Digital Transformation provides the competences by conducting a 2-semester teaching and training program with case studies and lectures from industry experts and combining it with a 2-semester research and project phase with electives and thesis projects. Through the subject range offered by the Ruhr Master School (RMS), the compulsory elective studies are integrated in a cross-university network. This offer is completed by international, project-oriented components and summer schools as well as symposia.

### Digital Transformation is unique since...

this program provides skills to work in cross-domain projects within international teams. A major focus is put on the understanding of the complete design flow for digital solutions.

Master of Science prepares you for the work in the relevant industry

After successfully completing the study program, you will be awarded the degree Master of Science (M.Sc.).

The 4-semester Master's program aims to provide students with the qualifications required for the work in the relevant industry just as research and development institutions, consultation companies or civil services.

## Perspectives

### Professional perspectives

Graduates of this Master's program find their job opportunities in:

- software and IT companies
- the start-up and innovation industry
- the mobility industry
- research institutes

### Cooperative Promotion

The Master's degree is the basis for a doctorate. Graduates who wish to acquire further academic qualifications have the opportunity to pursue a doctoral degree at a university through a cooperative doctorate in which Fachhochschule Dortmund – University of Applied Sciences and Arts cooperates with a university.

## Application

### What do i need?

#### 1. Required degree

Diplom or a Bachelor's degree in (technical) Computer Science, Electrical Engineering, Information Technology or a study program closely related to the Master's program Digital Transformation at a university of applied sciences (Fachhochschule) or a university, or the completion of a corresponding accredited Bachelor's qualification program at a university of cooperative education (Berufsakademie) with an overall grade of at least "good" (2.5).

The qualifying study program must have included instruction in the relevant competences in the areas of Digital Systems and Software Engineering equalling the required amount at the required level.

In addition, the programs must amount to a minimum of 180 credit points in accordance with the European Credit Transfer and Accumulation System (ECTS). Degrees obtained outside the ECTS-System must be converted into the ECTS-System.

#### 2. Proof of English language proficiency

Proof of required English language proficiency acquired in the TOEFL ITP test with at least 550 points or in the TOEFL iBT test with at least 90 points, taken within the last two years before the application. The proof of language proficiency can also be provided by other test types equivalent to the TOEFL test in accordance with the Common European Framework of Reference for Languages: Learning, Teaching, Assessment - CEFR, (e.g. IELTS with a score of at least 6.5). In exceptional cases, the proof can be provided by an equivalent certificate or other certificates that confirm the corresponding minimum requirements (equivalent to C1 of the Common European Framework of Reference for Languages). An appointed committee decides whether the equivalence is met.

#### 3. Pre-Check Service

In order to verify whether you meet the requirements for admission to the programme before submitting your application, all applicants (EU, German, non-EU) are highly recommended to submit their documents for a pre-check.

After successfully passing the pre-check, you will receive instructions and a link to the online portal.

Here you can find the link to the [Pre-Check Service >](#)