

# Self-disclosure for M.Sc Data Science at TU Dortmund University

Dear interested Data Science students,

Thank you for your interest in our Master's program. Before applying, please read and complete this document carefully. It helps you check if you meet the admission requirements. This self-check is for your guidance only; we will verify all information using your transcript of records. Please sign the document at the end to confirm completion of the self-check and the special functional qualification.

Surname/Family name:	
First name/Given name:	
Bachelor degree:	
Bachelor University (name and place):	

## Admission requirements

In order to be eligible for our Master program, you have to fulfill **five different admission criteria**. As long as you fulfill all of these criteria, a seat in our program is guaranteed for you. Due to cross-semester admission, admissions are usually valid for three subsequent semesters.

### Criterion 1: Orientation of your Bachelor degree

The main requirement is a Bachelor's degree in Data Science from TU Dortmund University. Degrees from other universities may also be accepted if they are comparable to our program. In this case, your degree should be oriented toward Computer Science, Mathematics, and Statistics. The exact criteria are defined in our examination regulations and on our website(<https://statistik.tu-dortmund.de/en/studies/degrees/data-science-msc/admission/>). To check whether your degree qualifies, please follow the instructions in this document.

First, convert your credits (or weekly hours) into our ECTS system. This is a simple rule-of-three calculation: determine your average number of credits per semester, divide 30 by this value, and multiply all your credits by the result. For example, if your average is 20 credits per semester, multiply your credits by 1.5. Please round appropriately.

Below you will find a detailed list of the required components of your Bachelor's degree. To check whether your degree is suitable, please complete the corresponding tables. Please note: only courses from a qualifying Bachelor's program can be considered; additional qualifications (e.g. online courses, professional experience, or Master's degrees) are not accepted. Each course can only be counted once. If you do not meet the required number of credits, admission is not possible. We require your Bachelor program to contain the following achievements.

1. 8 ECTS in Computer Science courses. Possible fields for those courses are "Programming", "Algorithms", "Data Structures", "Object-Oriented Programming" and "Software Engineering".

Course title	ECTS

2. 16 ECTS in mathematics courses. Possible fields for those courses are "Calculus", "Linear Algebra", "Differential Equations", "Discrete Mathematics" and "Numerics".

Course title	ECTS

3. Course of at least 4 ECTS covering an introduction to (descriptive) statistics or probability theory. More courses on advanced statistical methods can also be listed here. Please note: your Bachelor’s degree must include at least one course fully dedicated to statistics. Combined courses (e.g. “Numerical and Statistical Methods”) do not count. If your Bachelor’s program does not include such a course, you are not eligible for our program.”

Course title	ECTS

4. The sum of courses in 1., 2. and 3. must be at least 44 ECTS.  
If your sum of courses is less, than you are not eligible.

Sum of ECTS

Admission under additional requirements is also possible. This is not considered “conditional admission”; students are still fully admitted, and the requirements must be completed after enrollment. The criteria above ensure a common foundational level for all admitted students. However, some content from our Bachelor’s program may not have been covered in your previous studies. In such cases, the following additional requirements may be assigned:

- Probability: an advanced introduction to probability theory (if only basic content was covered)
- Inference: an introduction to statistical estimation and hypothesis testing
- Linear Models: an introduction to linear modeling
- Introduction to Statistical Learning: an introduction to statistical learning methods

The specific requirements will be stated in your admission letter.

### Criterion 2: Final grade of your Bachelor degree

The final grade of your Bachelor’s degree must be at least ‘good’ (i.e., 2.7 in the German grading system). Your grade will be converted using the so-called modified Bavarian formula. Grades are always truncated after the first decimal (e.g., 2.79 is still considered sufficient). If your grade does not meet this requirement, admission is not possible.

### Criterion 3: Language requirements

Our Master's program is taught entirely in English. Therefore, you must provide proof of sufficient English language skills to participate. A minimum level of B2 is required. We accept the following proof:

1. German higher education entrance qualification (English from grade 5 or 7 through to the Abitur), typically applicable to students educated in Germany
2. An internationally recognized language certificate (typically, IELTS or TOEFLS). This is checked by uni assist, if uni assist accepts your certificate as B2, we will also accept it
3. A degree from an English-speaking school or an English-taught study program (MOI, medium of instruction certificate)
4. Comparable evidence (please contact us)

### Criterion 4: Participation in the self-assessment test

In order to help you assess your own scientific skill level and to clarify the basic knowledge expected for our program, you are required to complete an online self-assessment test. Please note that this test is not graded. We are not interested in your performance; it is only intended to give you feedback on whether your knowledge is sufficient for our Master's program. The **test results do not need to be submitted** with your application.

Hereby I confirm that I have participated in the online self-assessment test.

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Place and Date

Signature

### Criterion 5: Special functional qualification

In order to determine whether you have the skills and knowledge required to successfully complete the Master's program, you must provide evidence of special functional qualification for the Master's in Data Science at TU Dortmund University. This qualification is automatically granted if you hold a Bachelor's degree in Data Science from TU Dortmund University.

If you hold a Bachelor's degree from an external university, you must explicitly demonstrate this qualification by completing a **data analysis project provided on our website**. For this purpose, you are required to independently prepare a final report based on the given task and **submit it** together with your application documents. The qualification is granted if the report shows that you possess the necessary knowledge and skills for the Master's program.

More details on the task for the current semester can be found on our admission website: <https://statistik.tu-dortmund.de/en/studies/degrees/data-science-msc/admission/>.

Hereby I confirm that I submitted the requested statistical report. I confirm that I did write the report independently and without unauthorized aids. I understand that my admission may be declared to be invalid if I violate this.

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Place and Date

Signature