

# MSc Data Science

## Self-indication of admission requirements and selection criteria

Application number:	
Surname/Family name:	
First name/Given name:	
Date of birth:	
Bachelor degree:	
Bachelor University (name and place):	

## Admission requirements

### Language certificate

Please provide proof of your English language skills at level B2 of the Common European Framework of Reference for Languages (CEFR) e.g. university degree at an education institution where English is the language of instruction, IELTS  $\geq 5.0$ , Cambridge Examinations:  $\geq$  first certificate, TOEFL paper  $\geq 500$ , or computer  $\geq 170$  or internet  $\geq 80$ , UNIcert II.

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### Credits in mathematics

20 credit points in mathematical courses are required for admission to the MSc Data Science. Of these 20 credit points, at least 5 credit points need to be in the area of Linear Algebra or Calculus and at least 5 credit points need to be in the area of Probability Theory or Statistics. Please indicate the relevant courses in the forms below. Here is an example for the fulfillment of the linear algebra and analysis courses.

Course title <sup>1</sup> :	Institution <sup>2</sup> :	Credit points <sup>3</sup>
Lineare Algebra I	Freie Universität Berlin, Institut für Mathematik	10 ECTS

<sup>1</sup>Please indicate the title of the course, e.g. "Linear Algebra I", or "Introduction to Linear Algebra for computer scientists", or similarly. <sup>2</sup>Please indicate the institution that awarded the certificate for the course. If the course was completed at a university, please also indicate the respective department. <sup>3</sup>Please indicate the number of credits you received for the successful completion of the course and the unit that these credits are measured in, e.g. ECTS.

#### Credit points in Linear Algebra or Calculus (a minimum of 5 points is required)

Course title	Institution	Credit points

#### Credit points in probability theory or statistics (a minimum of 5 points is required)

Course title	Institution	Credit points

**Remaining credit points** (if any, a minimum of 20 credit points in mathematical courses is required)

Course title	Institution	Credit points

### **Computer science and programming**

10 credit points in computer science courses are required for admission to the MSc Data Science. Of these 10 credit points, at least 5 credit points need to be in the area of algorithms and at least 5 credit points need to be acquired in courses on higher programming languages, such as C/C++, Java, or Python,

**Credit points in algorithms** (a minimum of 5 points is required)

Course title	Institution	Credit points

**Credit points in programming** (a minimum of 5 points in C/C++, Java, or Python is required)

Course title	Institution	Credit points

### **Selection criteria**

#### **Practical experience**

10 selection points are awarded for proof of pertinent practical experience in data science amounting to at least 150 hours. Please indicate the relevant experience, the institution at which this experience was gained, and the total number of hours here.

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#### **Advanced training**

A total of 10 selection points can be earned for proof of advanced training amounting to at least 40 hours (e.g. via online learning certificates). Please indicate the advanced training, the institution that provided the advanced training, and the total number of hours here.

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