

## —Master in Industrial Mathematics—

### Application information

**Application period:** 1 June - 15 July (winter semester) and 1 December - 15 January (summer semester)

**Semester start:** 1 October (winter semester) und 1 April (summer semester)

**Language(s) of instruction:** English

### Introduction

The Master's program in Industrial Mathematics is provided by the Department of Mathematics of the University of Hamburg and the Hamburg University of Technology (Institute of Mathematics) and started in October 2014. It comprises courses in Mathematics, Computer Science and Engineering.

You are asked to attend courses from Applied Mathematics, Computer Science and Engineering Sciences, respectively. You have to attend compulsory courses in Applied Mathematics at the amount of 46 European Credit Transfer Points (ECTP) at the minimum. In addition, it is mandatory to complete at least one mathematical seminar and to collect at least 20 ECTP in Engineering Sciences or Computer Science combined. Furthermore, you can choose freely among courses from both universities for a total of 16 ECTP. Finally, in your Master's Thesis (30 ECTP) you will be invited to join one of our research groups in Applied Mathematics. After receiving a Master's degree, you may apply for admission to PhD studies.

### Admission requirements

**(List of all admission requirements as per the current admission bylaws)**

#### University degree

You have to provide a Bachelor's degree in Industrial Mathematics, Mathematics (with specification in Engineering), Engineering (with specification in Mathematics) or equivalent. You are eligible, if you can prove that you have gained at least 90 credit points in mathematical courses with engineering specification or engineering courses with mathematical specification, respectively.

If you have not received your degree certificate yet, you can submit this by the end of the first semester of your master's program. Please see the "Documents to submit" section below for details.

### **Additional special admission requirements**

Your proficiency in English will be considered as proven if at least one of the following applies to you:

- (a) You have successfully passed a university program taught in English
  - (b) You have passed the TOEFL test with 450 credits in the paper-based version (TOEFL PBT) or 130 credits in the computer-based test (TOEFL CBT) or 78 credits in the internet-based-test (TOEFL iBT)
  - (c) You have passed the IELTS test with a score of at least 4.5
  - (d) You have a high school diploma accepted at English language universities
  - (e) You have spent at least 6 months in an English speaking country
- or if you provide us with similar evidence or equivalent qualifications.

For details of the legal basis for this regulation, please see the admission bylaws for your chosen degree program: [www.uni-hamburg.de/zugang-master](http://www.uni-hamburg.de/zugang-master)

### **Recognition of transcripts for degree programs completed at foreign higher education institutions**

If you obtained your first degree abroad, your certificate will be reviewed during the application procedure in the Faculty of Mathematics, Informatics and Natural Sciences, Department of Mathematics.

If your degree certificate is not in *English or German*, please include a certified English or German translation of this together with your application documents.

### **Application**

#### **Online application**

You will need to complete the online application available on Universität Hamburg's application portal during the application period: [www.uni-hamburg.de/online-bewerbung](http://www.uni-hamburg.de/online-bewerbung)  
Please create a user account, enter your information online, and submit your application electronically.

You will then need to print out your online application and submit it together with the following documents to the application address indicated below.

## Documents to submit

Please submit uncertified copies of all documents. For documents not issued in English or German, a certified English or German translation is required.

- **Signed printout of your online application**
  
- **Degree certificate or provisional Transcript of Records**  
If you are still studying when you apply and cannot yet provide a final certificate containing your grades, please submit your current Transcript of Records confirming your provisional grade point average. You will then need to submit your degree certificate by the end of the first semester of your master's program.  
  
You are eligible, if you can prove that you have gained at least 90 credit points in mathematical courses with engineering specification or engineering courses with mathematical specification, respectively.
  
- Current transcript of records with **grade point average**
  
- Copy of your **higher education entrance qualification** (i.e. High School diploma or equivalent). Copies in English or German are accepted. If your diploma is in another language, please enclose a certified translation.
  
- Curriculum vitae
  
- **Short personal statement** (no more than 15 lines): What do you like about Mathematics? What interests you most? What are you hoping to achieve in your course?
  
- Your **proficiency in English** will be considered as proven if at least one of the following applies to you:
  - (a) You have successfully passed a university program taught in English
  - (b) You have passed the TOEFL test with 450 credits in the paper-based version (TOEFL PBT) or 130 credits in the computer-based test (TOEFL CBT) or 78 credits in the internet-based-test (TOEFL iBT)
  - (c) You have passed the IELTS test with a score of at least 4.5
  - (d) You have a high school diploma accepted at English language universities
  - (e) You have spent at least 6 months in an English speaking country

or if you provide us with similar evidence or equivalent qualifications.

We recommend that you be able to follow courses and seminars in English as well as in German.

The copies of your documents need not to be certified. Copies in English or German are accepted. If your certificates are in another language, please enclose a certified translation.

### **Application address**

Universität Hamburg

Fakultät für Mathematik, Informatik und Naturwissenschaften

Fachbereich Mathematik

Studienbüro

Bundesstraße 55

D-20146 Hamburg

Please note that your application can only be considered if your complete application documents reach the **application address** by the application deadline. The date on which your application is received and not the postmark is decisive! This deadline is final; no extensions can be granted.

Please bind (staple) all supporting documents required for your application or ensure that loose pages are otherwise bound. The printout of your online application should be the top page. Do not use paper clips, folders, or transparent sleeves.

If you want to submit an **additional special application** (e.g., hardship application), you will need to send this directly to the Application and Admissions Team (Team Bewerbung und Zulassung) together with the required proof separately from the application documents indicated above by the application deadline. For more information on special applications, please see [www.uni-hamburg.de/sonderantrag](http://www.uni-hamburg.de/sonderantrag) and [www.uni-hamburg.de/info-master](http://www.uni-hamburg.de/info-master).

### **Selection criteria**

If the number of applicants exceeds the number of places available, a selection procedure will be necessary:

- a) grade of your bachelor's degree and length of studies
- b) relevant qualifications or work experience, in particular a Bachelor's degree in Industrial Mathematics
- c) personal statement

For details of the legal basis for this regulation, please see the selection bylaws for your chosen master's program: [www.uni-hamburg.de/auswahl-master](http://www.uni-hamburg.de/auswahl-master)

### Admission and enrollment

Once your application has been reviewed, an acceptance or rejection letter will be made available in your STiNE account under the *Dokumente* (Documents) tab. Please see the information on applying online for a master's program for details of when this will become available: [www.uni-hamburg.de/info-master](http://www.uni-hamburg.de/info-master). An enrollment deadline will be indicated in your acceptance letter—please submit the documents required for enrollment to the Application and Admissions Team (Team Bewerbung und Zulassung) by this date. Please submit certified copies of all documents—see [www.uni-hamburg.de/beglaubigung](http://www.uni-hamburg.de/beglaubigung) for details.

### FAQs

<https://www.math.uni-hamburg.de/en/studium/master/msc-technomathematik/bewerbung.html>

### Contact

Do you have further questions? Please send us an E-Mail to [studium.math@uni-hamburg.de](mailto:studium.math@uni-hamburg.de)

### List of comparable degree programs

#### Mathematics M.Sc. (taught completely in English):

<https://www.math.uni-hamburg.de/studium/master/msc-mathematics/bewerbung.html>

You have to provide evidence of academic achievement with at least 90 Credit Points obtained through Mathematics subjects or subjects with a strong mathematical content in a Bachelor degree program in Mathematics or other related areas like Industrial Mathematics or Engineering Science (with specialization or complementary subjects in Mathematics). The admissions committee proves comparability of your studies after submitting application.

#### Mathematical Physics M.Sc. (taught completely in English):

<https://www.math.uni-hamburg.de/en/studium/master/msc-mathematicalphysics/bewerbung.html>

You have to provide evidence of academic achievement with at least 90 Credit Points obtained through Mathematics and Physics subjects or subjects with a strong mathematical and physical content in a Bachelor degree program like Physics or Mathematics (with specialization or complementary subjects in Physics). The admissions committee proves comparability of your studies after submitting application.

Last updated: Nov 2018