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Master's degree



Mathematics (MSc)

University of Göttingen • Göttingen

Overview

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| Degree | Master's degree in Mathematics (MSc) |
| Teaching language | <ul style="list-style-type: none">English |
| Languages | Mathematics courses are held in English. Some courses in the minor subject might be taught in German, depending on the subject. Participants can choose to write the Master's thesis in either language. |
| Programme duration | 4 semesters |
| Beginning | Winter and summer semester |
| Application deadline | 15 January for the summer semester (starting in April) and 15 July for the winter semester (starting in October) Additional early application period: 15 April to 15 May for October intake and 15 October to 15 November for April intake |
| Tuition fees per semester in EUR | None |
| Combined Master's degree / PhD programme | No |
| Joint degree / double degree programme | No |
| Description/content | <p>Mathematics embedded in an interdisciplinary environment is key to technology and innovation. The diversity of this fast-growing and evolving field addresses the challenges of problem-solving that ultimately shapes the future. Based on its achievements in higher education and research, the Faculty of Mathematics and Computer Science at the Georgia Augusta University of Göttingen continually enhances the close alliance between research and teaching. Consequently, one of the main objectives of this Master's programme is to prepare young mathematicians to conduct independent research and to make valuable contributions in industry and commerce as well as in educational and research institutions.</p> <p>Main features:</p> <ol style="list-style-type: none">1. Research-based teaching and learning – promoting research-related courses and occupationally-orientated training within a familiar atmosphere in which students are trained in conducting independent research2. Academic guidance and individual counselling – following the tradition tracing back to Lichtenberg, a professor of mathematics and physics at Georgia Augusta between 1770 and 1799, who said of Göttingen that people "are taught how to think rather than being continuously taught what they ought to think" |

3. Internationality and cooperation – enhancing students' ability to work in international networks and partnerships, extending and institutionalising the collaboration with research establishments in science, commerce and community in and around Göttingen, in Germany, and abroad

Students may choose one out of three tracks, each with its own focus:

- general research-oriented track
- mathematical physics
- mathematical data science

Course Details

Course organisation

In this well-structured but highly demanding Master's programme, students start out by broadening and deepening their knowledge of mathematics acquired during undergraduate studies and are then introduced to new aspects of their field of specialisation including recent developments.

A special focus is set on approaching traditional mathematical themes from a modern perspective. Profound expert and methodological knowledge is provided through an extensive and comprehensive selection of lectures, seminars and lab courses, encompassing topics in pure and applied mathematics, including statistics as well as minor subjects such as physics and computer sciences.

In the mathematics programme, students choose lecture courses and seminars from various subjects such as algebra, analysis, geometry, number theory, topology, numerical analysis, optimisation, image processing, statistics, stochastics, and mathematical data science.

In addition, students improve their soft skills in order to strengthen their personal responsibility and to acquire additional competencies for their future professional life. During their fourth semester, students work under supervision, but independently, on a scientific project.

Part-time studies are possible.

A Diploma supplement will be issued

Yes

International elements

- Language training provided
- Training in intercultural skills
- Integrated/optional study abroad unit(s)

Integrated/optional study abroad unit(s)

Within the framework of the Erasmus+ programme, students can study abroad for one or two semesters at one of 20 Erasmus+ partner institutions in 12 European countries.

The Global Exchange Programme of the University of Göttingen enables students to spend one or two semesters studying or researching at one of almost 60 partner universities in 18 countries on six continents.

Integrated internships

Internships will be acknowledged as key competencies with 10 ECTS credits.

Course-specific, integrated German language courses

No

Course-specific, integrated

No

Costs / Funding

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| Tuition fees per semester in EUR | None |
| Semester contribution | <p>Fees amount to around 400 EUR per semester. Fees include a prepaid semester ticket that entitles students to use regional trains (in Lower Saxony and Bremen) and city buses in Göttingen free of charge.</p> <p>Fees: https://www.uni-goettingen.de/fee Semester ticket: https://www.uni-goettingen.de/en/16432.html</p> |
| Costs of living | <p>The average cost of living in Göttingen is modest compared to other major university cities in Germany. Currently, expenses for accommodation, food, health insurance and books are about 850 EUR per month. Please note that fees for health insurance may vary according to age. Living expenses might be slightly higher.</p> <p>Students of the University of Göttingen receive discounts for cultural events. Meals and drinks are available at reduced prices at all university canteens.</p> <p>For further information, please see the following link: www.uni-goettingen.de/en/54664.html.</p> |
| Funding opportunities within the university | No |

Requirements / Registration

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| Academic admission requirements | Academic admission requirements include a Bachelor's degree (preferably with honours) in mathematics. For details, see: www.uni-goettingen.de/en/473506.html . |
| Language requirements | English proficiency at level C1 or higher (e.g. IELTS band score 7.0 or iBT TOEFL 94) |
| Application deadline | <p>15 January for the summer semester (starting in April) and 15 July for the winter semester (starting in October)</p> <p>Additional early application period: 15 April to 15 May for October intake and 15 October to 15 November for April intake</p> |
| Submit application to | Online application: https://www.uni-goettingen.de/en/473506.html |

Services

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| Possibility of finding part-time employment | The university supports students in finding part-time jobs in local industries and businesses. A number of student jobs are also available at the university. They are announced on the following |
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website: www.stellenwerk-goettingen.de.

Please note that restrictions may apply with your scholarship or work contract.

Non-EU students are allowed to work for a maximum of 120 full days (240 half days) per year.

Accommodation

The Accommodation Service of the International Office supports international students who are enrolled at the University of Göttingen to find accommodation in Göttingen and serves as point of contact for queries. The service works together with the private market in Göttingen and the Student Services ("Studentenwerk"). As the amount of accommodations in Göttingen is limited, it is highly recommended to contact the Accommodation Service as early as possible. For further information, please see the following link: <https://www.uni-goettingen.de/en/617883.html>.

Career advisory service

Especially for international students aiming for a career entry in Germany, the [Career Service](#) provides workshops, online learning modules, and a qualification programme as well as digital career tools and a virtual community for international employment opportunities.

For international students and prospective graduates, the "[Start Guides](#)" project also offers assistance in developing and realising individual career perspectives in Germany.

If you have a promising business idea or are interested in the topic of founding a company, [start-up support](#) is offered! The University of Göttingen accompanies you on your way to self-employment and supports you with advice, funding, qualification formats and network contacts.

Support for international students and doctoral candidates

- Buddy programme
- Accompanying programme
- Welcome event
- Specialist counselling

General services and support for international students and doctoral candidates

The [International Office](#) provides a wide range of services for international students.

German students help newly arrived students to adapt to the university and the city during their [first weeks](#).

There is also an [orientation week](#) for new international students, which provides valuable information about Göttingen and the university.

[Study Buddy Programme](#) as a part of the project Integration and Diversity at Göttingen University (InDiGU)

[Foyer International](#): Cultural evenings and more for all students.

[German courses](#) during studies (free of charge)

Contact

University of Göttingen

Faculty of Mathematics and Computer Science

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37073 Göttingen

✉ st@math.uni-goettingen.de

🌐 Course website: <https://www.math.uni-goettingen.de/master>

📘 <https://www.facebook.com/University.of.Goettingen>

🐦 <https://twitter.com/unigoettingen>

🌐 <https://www.linkedin.com/school/-university-of-goettingen/>

📷 <https://www.instagram.com/unigoettingen>

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International Programmes in Germany - Database

www.daad.de/international-programmes
www.daad.de/sommerkurse

Editor

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German Academic Exchange Service
Section K23 – Information on Studying in Germany
Kennedyallee 50
D-53175 Bonn
www.daad.de

GATE-Germany

Consortium for International Higher Education Marketing
www.gate-germany.de

Disclaimer

The data used for this database was collected and analysed in good faith and with due diligence. The DAAD and the Content5 AG accept no liability for the correctness of the data contained in the "International Programmes in Germany" and "Language and Short Courses in Germany".

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