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# Master's degree



**Mathematics**

Saarland University • Saarbrücken

## Overview

Degree	Master of Science (MSc)
Teaching language	<ul style="list-style-type: none"><li>English</li></ul>
Languages	All courses and seminars are offered in English.
Programme duration	4 semesters
Beginning	Winter and summer semester
Application deadline	International applications are very welcome. Application deadlines are: 15 November for the following summer semester 15 May for the following winter semester
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	<p>The research-oriented Master's programme in Mathematics provides a high-profile education in the following areas:</p> <ul style="list-style-type: none"><li>algebra, algebraic geometry, group theory, and geometric group theory</li><li>applied analysis</li><li>functional analysis, operator theory, and free probability theory</li><li>quantum groups and quantum information theory</li><li>mathematical data analysis</li><li>numerics for partial differential equations and inverse problems</li><li>stochastics and financial and insurance mathematics</li></ul> <p>In our programme, we facilitate close contact with the research projects of the department, e.g. the Automata, Dynamics, and Actions ERC-grant research project and the transregional collaborative research centre (Symbolic Tools in Mathematics and their Application – SFB-TRR 195). Furthermore, we are developing a new Master's programme on quantum information theory in collaboration with the Department of Computer Science and the Department of Physics.</p> <p>There is a strong collaboration with the Department of Computer Science and the Max Planck Institute for Informatics in the areas of discrete mathematics, complexity theory, and computational geometry.</p>

## Course Details

<b>Course organisation</b>	<p>The students can specialise directly in their desired research area. They are free to choose from a mixture of core courses, advanced courses, and seminars.</p> <p>Part-time studies are possible.</p>
<b>International elements</b>	<ul style="list-style-type: none"><li>• International guest lecturers</li><li>• Specialist literature in other languages</li><li>• Projects with partners in Germany and abroad</li></ul>
<b>Description of other international elements</b>	<p>Alliance with other European universities:</p> <p><a href="https://www.uni-saarland.de/en/global/transform4europe.html">https://www.uni-saarland.de/en/global/transform4europe.html</a></p>
<b>Integrated internships</b>	<p>The students can earn credit points for the Master's programme by doing a voluntary internship.</p>
<b>Course-specific, integrated German language courses</b>	<p>No</p>
<b>Course-specific, integrated English language courses</b>	<p>No</p>

## Costs / Funding

<b>Tuition fees per semester in EUR</b>	<p>None</p>
<b>Semester contribution</b>	<p>The enrolment fee amounts to about 320 EUR per semester. This fee includes a semester ticket covering public transport in Saarland (including Saarbrücken).</p>
<b>Costs of living</b>	<p>About 800 EUR per month to cover personal expenses (including accommodation)</p>
<b>Funding opportunities within the university</b>	<p>No</p>

## Requirements / Registration

<b>Academic admission requirements</b>	<p>Applicants must have a Bachelor's degree in Mathematics or a related Bachelor's degree. A preliminary admission can also be given under the condition that you have to pass certain missing lectures from the Bachelor's programme. The final decision on the admission and potential extra requirements are made by the examination board.</p>
<b>Language requirements</b>	<p>English proficiency at level C1 is essential. Standardised test results (TOEFL, CPE, or IELTS) are</p>

required. Exceptions are only made for native speakers and those who hold a degree from a university in a country where English is the native language.

**Application deadline** International applications are very welcome. Application deadlines are:  
15 November for the following summer semester  
15 May for the following winter semester

**Submit application to** Please apply online at: <https://apply.cs.uni-saarland.de/auth/>

## Services

**Possibility of finding part-time employment** Jobs as tutors and research assistants are available in the department and cooperating institutes each semester. Openings are posted on bulletin boards and on our websites.

**Accommodation** Accommodation is offered by the student service office:  
<http://www.studentenwerk-saarland.de/en/Wohnen>  
You can also find a lot of shared flats on the following commercial website:  
<http://www.wg-gesucht.de/en/wg-zimmer-in-Saarbruecken.116.0.1.0.html>

**Support for international students and doctoral candidates**

- Welcome event
- Accompanying programme

**General services and support for international students and doctoral candidates** In addition, students are supported by our Welcome Center <https://www.uni-saarland.de/en/global/welcome-center.html>

**Supervisor-student ratio** Students in the Master's programme work in small groups and are advised individually by the professors.

## Contact

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🌐 Course website: <https://www.uni-saarland.de/en/study/programmes/master/mathematics.html>

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📷 [https://www.instagram.com/mathematik\\_uds/](https://www.instagram.com/mathematik_uds/)

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# International Programmes in Germany - Database

[www.daad.de/international-programmes](http://www.daad.de/international-programmes)  
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## Editor

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## GATE-Germany

Consortium for International Higher Education Marketing  
[www.gate-germany.de](http://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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