The international Master’s degree program Advanced and Computational Mathematics at Chemnitz University of Technology, Germany, leads after four semesters to a Master’s degree in mathematics. Students with excellent results qualify for the Ph.D. program.
What characterizes the Master’s degree program Advanced and Computational Mathematics?

Mathematics is indispensable for an efficient treatment of complex real-world problems coming from engineering, computer science, economics, finance etc. To list a few but rather influential and striking examples, we refer to household automatic control systems, Google ranking, portfolio optimization, weather forecasting or big data analysis. In these and many other areas, state-of-the-art mathematical concepts are used to model, analyze and solve the given problem. The aim of this four-semester Master’s program is to train highly qualified graduates in mathematics who are capable of successfully dealing with challenges encountered in academic and practical working fields. Based on a Bachelor’s degree in mathematics, the program deepens knowledge and skills in both theoretical and applied mathematics and prepares students for professional careers in business, industry or research.

Why study at Chemnitz University of Technology?

Chemnitz University of Technology (CUT) offers outstanding education to its students, providing them with various and attractive career perspectives. Owing to an excellent professor-to-student ratio, CUT ranks among the top five universities in Germany with respect to the quality of teaching. This high staff-to-student ratio allows more individual attention to be given to students, better enabling them to meet specific academic needs and to enjoy shorter course completion times than in most other German universities. Millions of euros have been invested in CUT in recent years, both by the government and through research projects funded by industry, making it one of the most modern research-based universities in Germany.
### Degree Structure

#### Advanced and Computational Mathematics

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<tr>
<th>1. semester</th>
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<tr>
<td>Levelling up course</td>
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<tr>
<td>One Basic Course in Advanced Pure Mathematics</td>
<td>One Basic Course in Computational Mathematics</td>
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<tr>
<td>One Basic Course in Data Science</td>
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Choose your field of specialization:
Advanced Pure Mathematics, Computational Mathematics or Data Science

and attend the corresponding courses teaching you the latest state-of-the-art

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<th>1. semester</th>
<th>2. - 3. semester</th>
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<tr>
<td>Seminar</td>
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<tbody>
<tr>
<td>Master’s Thesis</td>
<td>Language Courses</td>
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<td>German (at least level A2), Optional language courses</td>
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For details, please visit www.tu-chemnitz.de/mathematik/mscphd/

### Career Opportunities

Job prospects for graduates of the M.Sc. program Advanced and Computational Mathematics are excellent. Job opportunities are very versatile and cover a wide range of different branches in industry and economics, such as:

- Consulting
- Banks and insurance companies
- Software developing
- Logistics
- Scientific research
- Information technology
- Data analysis
- Telecommunications

In addition, graduates with excellent grades qualify for the Ph.D. program of the Faculty of Mathematics.
GENERAL INFORMATION
Admission requirements: in general vocationally-qualifying university bachelor’s degree in Mathematics or equivalent degree program with regard to content, English language proficiency at Level B2 according to the CEFR
Standard period of study: 4 semesters (Part-time-studies possible)
Degree: Master of Science (M.Sc.)
Start of the degree program: usually winter semester
Language of tuition: English

FURTHER INFORMATION:

Studying in Chemnitz
www.study-in-chemnitz.com

Online application:
www.tu-chemnitz.de/studienbewerbung

FAQ - Frequently Asked Questions
www.tu-chemnitz.de/studierendenservice/faq.php.en

Student Service Point
Straße der Nationen 62, room A10.043
+49 371 531-12125
admission@tu-chemnitz.de

Central Course Guidance Service
Straße der Nationen 62, room A10.046
+49 371 531-55555
studienberatung@tu-chemnitz.de

Academic Course Guidance
For an overview of all academic counsellors
www.tu-chemnitz.de/studienberater

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Studierendenabsolventen- und Zentrale Studienberatung
09107 Chemnitz

For reasons of readability, the masculine gender was mostly used. However, the terms, titles and functions equally refer to all genders.