The international Master’s degree programme 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. programme.
What characterises the Master’s degree programme 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 programme 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 offers outstanding education to its students, providing them with various and attractive career perspectives. Owing to an excellent professor-to-student ratio, Chemnitz University of Technology 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 Chemnitz University of Technology 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.
Career Opportunities

Job prospects for graduates of the M.Sc. programme 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. programme of the Faculty of Mathematics.

Degree Structure

For details, please visit www.tu-chemnitz.de/mathematik/mscphd/
GENERAL INFORMATION

Admission requirements: in general vocationally-qualifying university Bachelor’s degree in Mathematics from Chemnitz University of Technology or equivalent degree programme 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 programme: 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

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

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