MATHEMATICS AND ITS APPLICATIONS
Who we are

Working closely with the Alfred Renyi Institute of Mathematics of the Hungarian Academy of Sciences, as well as economics, network science and cognitive science researchers from across CEU, we help our students build knowledge in mathematics through intensive coursework, exciting research opportunities and expert supervision. We will introduce you to new insights and real-life applications, and set you on a path towards a successful career in and outside academia. Our alumni include professors at ETH Zurich and Yale, and leading managers at Goldman Sachs and Morgan Stanley.

What we offer

**MS in Mathematics and its Applications / 2 years /** This program will give you a solid foundation in mathematics, both pure and applied, and the skills you will need to apply your knowledge to solve real-world challenges. Our core research interests include algebra, analysis and probability. You will benefit from our strong ties to the local academic and research scene, including the Renyi Institute of Mathematics, the Budapest University of Technology and Economics (BME) and Eotvos Lorand University (ELTE).
“The formula for success at the department consists of wide-ranging academic cooperation, an individual approach to students, diverse specialization paths and career orientation. We receive ample feedback throughout the academic year, while one-on-one consultations help us choose research directions that fit both our academic interests and the job market.”
PhD in Mathematics and its Applications / This doctoral program offers advanced knowledge and understanding of the main theoretical and applied concepts in mathematical science, preparing you for a life-long career in teaching and research. Backed by the resources, experience and reputation of the Renyi Institute of Mathematics, you will be part of a vibrant researcher community where working side-by-side with renowned mathematicians and leading experts is not only possible but strongly encouraged.

What you will study

Algebraic and convex geometry • Bioinformatics • Complexity theory • Discrete mathematics • Financial mathematics • Functional analysis • Geometric topology • Graph theory • Group theory • Logic and set theory • Number theory • Partial differential equations • Probability • Programming • Representation theory

Where it will take you

60% Business
33% Education & research
7% Self-employed & other
How to fund your studies

In pursuit of our mission, we strive to attract world-class graduate talent from all over the world. This is why we offer generous and accessible scholarships, available to students from any country.

In 2017-2018, 82% of CEU students received financial aid, ranging from tuition awards to scholarships with stipends and housing. Learn more about how to fund your studies at www.ceu.edu/financialaid.

How to apply

**General admissions requirements**
- Completed online application form: www.ceu.edu/apply
- Proof of English proficiency
- Letters of recommendation
- CV

**Program-specific requirements**

**MASTER’S PROGRAMS**
- GRE in mathematics or CEU-administered mathematics test
- Familiarity with fundamental undergraduate-level mathematics
- Statement of purpose

**DOCTORAL PROGRAM**
- MS or MSc with a major in mathematics or a related field (outstanding candidates with a four-year BA, BS or BSc degree are also eligible)
- Solid mathematical background
- Statement of purpose
49 English-language degree programs. Students and faculty from 100+ countries. 15,000+ alumni on 6 continents. Accredited in the U.S. and Hungary. 8:1 student/faculty ratio. Located in Budapest and Vienna.

Find out how recent changes to Hungary’s higher education legislation may affect future CEU students at www.ceu.edu/future-students.

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