MATHEMATICS AND ITS APPLICATIONS

CEU CENTRAL EUROPEAN UNIVERSITY

DEPARTMENT OF MATHEMATICS AND ITS APPLICATIONS

In close collaboration with the Alfred Renyi Institute of Mathematics of the Hungarian Academy of Sciences, the department enables students to expand their knowledge in mathematics and its applications through intensive course work, excellent research opportunities and expert supervision with outstanding scholars and institutions. Programs are taught in cooperation with professors from Hungarian institutes as well as visiting professors from around the world.

Select Areas of Research

- Algebraic 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
- Representation theory

CAREER PATH / Graduates pursue successful careers at universities, research institutes, corporations, banks, and governmental and EU institutions.

KINGA TIKOSI / HUNGARY

"The formula for success at the department consists of wide-ranging academic coopera-
tion, an individual approach to students, diverse specialization paths and career orien-
tation. We receive ample feedback throughout the academic year, while one-on-one
consultations help us choose research directions that fit our academic interests and
the job market. Up-to-date information on the evolving subfields of mathematics is
also available thanks to the cooperation with partner universities."

Master of Science in Mathematics and its Applications

ONE YEAR / TWO YEARS **/** These innovative and interdisciplinary programs provide students with comprehensive knowledge in the field of mathematics, both pure and applied, focusing on three fundamental areas: algebra, analysis and probability. The programs benefit from the opportunities offered by the rich local academic environment, including the Alfred Renyi Institute of the Hungarian Academy of Sciences (HAS), the Budapest University of Technology and Economics (BME) and Eotvos Lorand University (ELTE). The one-year program is suitable for students who have completed four years of undergraduate university study, while the two-year program is designed for applicants with a three-year bachelor's degree.

Doctor of Philosophy in Mathematics and its Applications

/ The doctoral program combines traditional mathematics and contemporary applications in matters related to modern society. It fosters critical and creative thinking, and offers doctoral candidates a unique academic experience and research opportunities in an international environment.

QUICK FACT / In the summer of 2017, the department organized the highly successful Discrete and Convex Geometry Conference with over 100 participants and speakers including Abel Prize Laureate Endre Szemeredi, Wolf and Kyoto Prize Laureate Laszlo Lovasz and Rothschild Prize Laureate Gil Kalai.

SCHOLARSHIPS / CEU is committed to attracting talented students and scholars from around the world, and provides generous scholarships available to accepted students from any country. In 2016-2017, 84% 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*.

General Admissions Requirements

- Complete online application: *www.ceu.edu/apply*
- Proof of English proficiency
- Letters of recommendation
- Curriculum vitae

Entry Requirements FOR THE MASTER'S PROGRAMS

- General CEU admissions requirements
- GRE in mathematics or CEU-administered mathematics test
- Statement of purpose
- Familiarity with fundamental under-graduate-level mathematics

Entry Requirements FOR THE DOCTORAL PROGRAM

- General CEU admissions requirements
- MS or MSc with a major in mathematics or a related field
- Excellent candidates with a four-year BA, BS or BSc degree are also eligible
- Statement of purpose
- Solid mathematical background

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Find out how recent changes to Hungary's
higher education legislation may affect future
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