

The University of Copenhagen

Founded more than 500 years ago the University of Copenhagen is the largest educational institution in Denmark. Its six faculties offer approximately 200 programs of study in the health sciences, humanities, law, science, social science, and theology.

The University is renowned for research of outstanding quality, and for an excellent academic environment that challenges students personally as well as intellectually. The primary goals of the University of Copenhagen are to promote research, teaching, and to communicate the results of scientific and scholarly research. The University holds as a central principle that teaching and research should continually interact.

The number of students at the University of Copenhagen rose steadily throughout the centuries from a modest 25-50 in 1479 to about 34,000 in 2005. The University of Copenhagen aims to prepare students for a broad range of jobs in the private and public sectors.

The University has at its disposal an area of about 600,000 square meters. The buildings are located in various parts of Copenhagen, but are distributed according to subject. Science subjects are mostly to be found in the areas near the University Park, the Botanical Gardens and Øster Vold.

The safe atmosphere, the well-developed infrastructure, the low level of pollution and the many cultural events all contribute to making Copenhagen one of the most liveable cities in the world and a great place to study. The waterfront and the many parks offer opportunities to relax away from the noise of city life. On weekends and during semester breaks, it is easy to get away to explore the beautiful castles and countryside around the island of Zealand or cross Øresund to discover our neighboring country, Sweden.

Denmark has approximately 5.4 million inhabitants - this amounts to roughly 1,4 % of the total EU population. The country has a coastline totaling c. 7,300 km in all and a 68-km-long frontier with Germany. The form of government is a parliamentary democracy with a royal head of state.

The Institute for Mathematical Sciences

Mathematics has been taught at the University of Copenhagen since it was founded. The mathematical institute itself dates back to 1934. The Institute for Mathematical Sciences, as it is called today, numbers approximately 40 senior faculty in pure and applied mathematics including statistics, operations research and actuarial mathematics. Teaching at the University of Copenhagen is in Danish, but the Institute for Mathematical Sciences offers several courses in English. In particular, the whole master's program is offered in English.

The institute has approximately 300 bachelor students, 75 master students and 10-20 Ph.D. students. Each year 20-30 international exchange students visit the institute.

International Master's Degrees in Mathematical Sciences

The Institute for Mathematical Sciences at the University of Copenhagen offers two-year international educations leading to the degrees of **Master of Science in Mathematics, Mathematics-Economics** and **Actuarial Mathematics**. Each of the educations consists of at least one year of course work, a half-year master's thesis and possibly other smaller projects. The courses and other elements of the education are offered in English and described in detail in the course catalogue: <http://www.sis.ku.dk/>. In addition to the graduate courses master's students can also choose between the many advanced bachelor's courses.

Our Specialties

At the Institute for Mathematical Sciences we offer courses and direct studies in most areas of pure and applied mathematics including *operator algebra, partial differential equations, mathematical physics, orthogonal polynomials, numerical analysis, representations of Lie groups, algebraic topology, groups and their representations, ring theory, homological algebra, algebraic geometry, algebraic number theory, information theory, probability theory, statistics, operations research, actuarial mathematics, financial mathematics, econometrics, and history of mathematics*. The department hosts a *research centre for non-commutative geometry* that also offers instruction for master's students.

How to apply and what does it cost?

In order to be enrolled as a master's student of mathematical science at the University of Copenhagen you must have earned a Bachelor's degree in mathematics, mathematics-economics or actuarial mathematics.

To apply you must fill out the application form available from the Institute for Mathematical Sciences or the Faculty of Science. As part of the application you have to supply proof of your Bachelor's degree (or proof of expected degree) and the TOEFL-test or the IELTS-test of English proficiency. We further recommend that non-Europeans take the *Graduate record Examination* (GRE) subject test in mathematics.

Students from EU/EEA countries study free of charge at the University of Copenhagen, for other students there will be a tuition fee of approximately 10,000€ per year. The exact tuition for the Fall of 2006 has not yet been fixed.

Cost of Living in Copenhagen: Accommodation for students costs approximately 400 - 600 € per month. A rough estimate of other expenses is 400-500 € per month. All international students may apply for a work permit.

Visa applications: International students in Denmark must have a residence permit. Non-EU/EEA citizens must get this permit prior to their arrival. Successful applicants will receive the necessary material to apply for the permit at a Danish embassy. Danish immigration authorities require documentation from non-EU/EEA students that they have adequate funds to support themselves.