MATHEMATICS

http://www.math.illinois.edu

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Major: Actuarial Science
Degrees Offered: M.S.

Major: Applied Mathematics
Degrees Offered: M.S.
Graduate Concentration: Actuarial Science (in Applied Mathematics only)

Major: Mathematics
Degrees Offered: M.S., Ph.D.
Graduate Concentration: Actuarial Science and Risk Analytics (Ph.D. only)

Major: Teaching of Mathematics
Degrees Offered: M.S.

Graduate Degree Programs

The department offers graduate study leading to the Master of Science in Mathematics, the Doctor of Philosophy in Mathematics, the Master of Science in Applied Mathematics, and the Master of Science in the Teaching of Mathematics. Opportunity also exists for specializing in computational science and engineering within the department's graduate programs via the Computational Science and Engineering (CSE) Concentration (http://cse.illinois.edu), and for specializing in financial mathematics via the Actuarial Science and Risk Analytics Concentration within the Mathematics Ph.D.

Admission

See the Mathematics Ph.D. information page (http://www.math.illinois.edu/GraduateProgram/apply-phd.html) or the Mathematics Masters information page (http://www.math.illinois.edu/GraduateProgram/apply-ms.html) for application deadlines, admission requirements including English requirements for non-native speakers, and for funding information.

The master's degree programs can be completed in one-and-one-half years of full-time study by students entering without deficiencies.

- Master of Science in Actuarial Science (http://catalog.illinois.edu/graduate/graduate-majors/math/ms-actsci)
- Master of Science in Applied Mathematics, Actuarial Science Concentration (http://catalog.illinois.edu/graduate/graduate-majors/math/ms-applied-math-conc-actuarial-science)
- Master of Science in Applied Mathematics, Applications to the Sciences option (http://catalog.illinois.edu/graduate/graduate-majors/math/ms-applied-math-apps-sciences)
- Master of Science in Applied Mathematics, Computational Science and Engineering Concentration (http://catalog.illinois.edu/graduate/graduate-majors/math/ms-applied-math-comp-sci-conc)
- Master of Science in Applied Mathematics, Optimization and Algorithms option (http://catalog.illinois.edu/graduate/graduate-majors/math/ms-applied-math-optimiz-algo)
- Master of Science in Mathematics (http://catalog.illinois.edu/graduate/graduate-majors/math/ms-math)
- Master of Science in Teaching of Mathematics (http://catalog.illinois.edu/graduate/graduate-majors/math/ms-teaching-math)

Students working toward a Ph.D. degree usually require from four to six years to complete the requirements. Each student must pass the comprehensive examinations (testing the student's knowledge of basic graduate-level mathematics in algebra, analysis, and other areas) and the preliminary examination (testing the student's ability to begin or continue research in a chosen field). Students must also write and defend a research thesis in their field of mathematics.

Doctor of Philosophy in Mathematics (http://catalog.illinois.edu/graduate/graduate-majors/math/phd-math)

Doctor of Philosophy in Mathematics - Actuarial Science and Risk Analytics Concentration (http://catalog.illinois.edu/graduate/graduate-majors/math/phd-math-actsci-conc)