Mathematics emphasizes careful reasoning, along with the analysis and solution of problems. Hence, a major or minor in mathematics will appeal to students who like to develop their skills in problem solving and analytical thinking. For this reason, mathematics is also an appropriate major for students planning careers in law or medicine.

Saint Louis University’s mathematics program combines the features of both small and large schools to create a compelling educational experience. Students can expect a student-friendly environment, with the math courses for majors small in size and taught by regular faculty (calculus classes are capped at 30 students). Faculty get to know students and give individual advice while students are individually recruited for participation in math contests and other opportunities.

Like a large school’s program, math at SLU also has enough breadth to let students tailor their upper-division math courses to their interests and goals. Students interested in pure mathematics can choose theoretical courses that provide a solid preparation for graduate school. Since SLU has a graduate program in mathematics, exceptional undergraduate students have the opportunity to take graduate courses in mathematics. Students interested in applied mathematics (or science and engineering students interested in a second major in mathematics) can focus on a wide selection of more applied courses. Students interested in statistics can select a variety of courses in statistics and probability theory. Students interested in secondary school teaching can select courses that fill the requirements of the major and of a teaching certificate at the same time.

The B.A. degree in mathematics is designed to meet the needs of students with a wide variety of interests. For the B.A. degree, the student builds on the basic core of required mathematics courses with a selection of five upper division courses from one of three options or by electing the Concentration in Statistics. For the Teachers Option, students take courses that meet the requirements for state certification in mathematics. For either the Pure Mathematics or the Applied Mathematics options, students must complete two upper division sequences in pure or applied mathematics and one additional upper level math elective. For the Statistics Concentration, students take five upper division courses in probability and statistics. Students concentrating in statistics must also take a course in computer programming.

The B.S. degree in mathematics is designed to provide a strong grounding in mathematics for students considering graduate school in mathematics or a closely allied field. For the B.S. degree, the student builds on the basic core of required math courses with a selection of nine upper-division mathematics courses, chosen to include pure mathematics courses in real analysis and algebra, a statistics course at the upper division level, two completed upper division sequences including one in pure mathematics, and electives to complete the required nine upper division courses. Students must also take at least one course in computer programming and one course in another discipline that has a strong mathematical or computational component. The requirements for the B.S. in mathematics follow the recommendations of the Mathematics Association of America for degree programs in mathematics that prepare students for graduate work.

A student who completes the five basic mathematics courses plus one upper-division elective may earn a minor in mathematics. Students seeking a minor in engineering mathematics must complete four upper-division math courses beyond calculus from a list that includes subjects traditionally of importance to engineers. Students seeking a minor in actuarial mathematics complete four upper division courses beyond calculus that are important in actuarial science.

OFFICE OF ADMISSION, ONE NORTH GRAND BLVD., ST. LOUIS, MO 63103
(800) SLU-FOR-U • (314) 977-2500 • admitme@slu.edu • www.slu.edu • beabilliken.com

Contact
Department of Mathematics and Statistics
314-977-2444
mathcs@slu.edu

Graduate Programs
For a full listing of graduate programs, visit graduate.slu.edu.
ADMISSION REQUIREMENTS

Freshman: All applications are thoroughly and carefully reviewed. Solid academic performance in college preparatory course work is a primary criterion in reviewing a freshman applicant’s file. College admission test scores (ACT or SAT) are used as an additional indicator of the student’s ability to meet the University’s academic requirements and to qualify the student for certain University scholarship programs. To be considered for admission to any Saint Louis University undergraduate program, the applicant must be approaching graduation from an accredited high school or have an acceptable score on the General Education Development (GED) test.

Transfer: Applicants must be a graduate of an accredited high school or have an acceptable score on the GED. An official high school transcript and official test scores are required only of those students who have attempted fewer than 24 transferable semester hours (or 30 quarter hours) of college credit. Those having completed 24 hours or more of college credit need only submit a transcript from previously attended college(s). In reviewing a transfer applicant’s file, the office of admission holistically examines the student’s academic performance in college-level coursework as an indicator of the student’s ability to meet the academic rigors of Saint Louis University.

WHY CHOOSE THIS PROGRAM?

+ The math program at SLU allows multiple options to satisfy different students’ interests and goals.
+ The department of mathematics and statistics teaches a wide range of undergraduate and graduate courses.
+ Courses in the major are small in size and taught by regular faculty.

Benefits of this program also include several career opportunities. There are many occupations and career paths open to a mathematics major. A good source for information about these is the webpage, maa.org/careers, which is maintained by the Mathematical Association of America.

Our own mathematics graduates have pursued a variety of careers. While some have gone into secondary education, many others have found employment in companies or government agencies such as:

+ Bureau of Reclamation
+ Compaq
+ Mastercard
+ Mercer St. Louis
+ NISA Investment Advisors
+ National Imaging and Mapping Agency
+ PricewaterhouseCoopers
+ Shell Oil

Other graduates have enrolled in graduate or professional schools in mathematics, business administration, computer science, physics, meteorology, medicine and education, among other fields.

SCHOLARSHIPS AND FINANCIAL AID

There are two principal ways to help finance a Saint Louis University education:

+ Scholarships: awarded based on academic achievement, service, leadership and financial need.
+ Financial Aid: provided in the form of grants and loans, some of which require repayment.

For priority consideration for merit-based scholarships, applicants should apply for admission by Dec. 1 and complete a Free Application for Federal Student Aid (FAFSA) by March 1.

For information on other scholarships and financial aid, visit the student financial services office online at finaid.slu.edu.

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