

SF State is known for excellence in research, programs, and mentoring in algebra-geometry-combinatorics, analysis, applied mathematics, mathematics education, and data science. We offer three undergraduate degree programs, an undergraduate minor in mathematics, and two master's degree programs: Master of Arts in mathematics and Master of Science in statistical data science.

## The City's University

SF State is a comprehensive urban university enrolling more than 24,000 students. The campus is located within the vibrant and beautiful city of San Francisco, with a rich intellectual and cultural life. SF State is best known for a long history of social justice activism and is home to the country's first College of Ethnic Studies. Throughout campus, one has the opportunity to witness this rich history through the honoring of social justice icons; notably in the naming of the Cesar Chavez Center and Malcom X Plaza.

## For More Information

### Math Department:

[math.sfsu.edu](http://math.sfsu.edu) (415) 338-2251

E-mail: [statmath@sfsu.edu](mailto:statmath@sfsu.edu)

### Applying:

[future.sfsu.edu/admissions](http://future.sfsu.edu/admissions)

### Information for International Applicants:

[future.sfsu.edu/international](http://future.sfsu.edu/international)

### Information for Undocumented Applicants:

[drc.sfsu.edu](http://drc.sfsu.edu) (415) 338-2588

## Tenure-Line Faculty

Niny Arcila-Maya	Algebraic Topology, Topological Data Analysis
Federico Ardila	Combinatorics
Matthias Beck	Analytical Number Theory, Discrete Geometry
Henry Boateng	Applied Mathematics, Scientific Computing
Emily Clader	Algebraic Geometry
Luella Fu	Large-Scale Statistics
Arek Goetz	Dynamic Systems
Tao He	Statistics, Quantitative Biology
Shandy Hauk	Mathematics and Statistics Education, Dynamic Systems
Serkan Hosten	Algebraic Statistics, Combinatorics
Eric Hsu	Mathematics Education
Mohammad Kafai	Statistics
Chun-Kit Lai	Harmonic Analysis, Fractal Geometry
Shidong Li	Applied Computational Harmonic Analysis
Anandamayee Majumdar	Statistics
Ornella Mattei	Applied mathematics, Harmonic Analysis
Alexandra Piryatinska	Statistics
Dustin Ross	Algebraic Geometry, Combinatorics
Alexander Schuster	Complex Analysis
Kimberly Seashore	Mathematics Education



# Bachelor in Mathematics

San Francisco  
State  
University

## Bachelor of Arts in Mathematics

The Bachelor of Arts degree program in mathematics is a liberal arts program that provides a flexible course of study for students with three concentrations designed to meet different career objectives.

### Liberal Arts

The Liberal Arts concentration is for students who desire a broad liberal arts education with an emphasis in mathematics.

### Teaching

The Teaching concentration is for students whose goal is to teach mathematics in middle school or high school. These students will obtain a solid understanding of the mathematics needed for teaching and classroom experience as volunteers in local public schools. They will also have the opportunity to develop the mathematical skills, flexibility, and perceptiveness to help future students cultivate wonderful, fruitful ideas, and to help students connect their thinking to formal mathematical structures. Students who complete this concentration will have satisfied the early field experience requirement and the subject matter competency requirement for a single subject credential in mathematics.

### Advanced Study

The Advanced Study concentration is for students who plan to pursue a masters or doctoral degree in mathematics. Students who choose this concentration will obtain a solid foundation in the cornerstones of advanced mathematics: linear algebra, abstract algebra, vector analysis, real analysis, and complex analysis.

## Bachelor of Science in Applied Mathematics

The Bachelor of Science in Applied Mathematics responds to the needs of business and industry for applied mathematical scientists. Applied mathematicians and statisticians are employed in such areas as operations research, systems analysis, computing, data analysis, biological sciences, communications research, and in the management sciences.

The primary aim of applied mathematics is to elucidate scientific concepts and to describe and predict scientific phenomena through the use of mathematics. The applied mathematician is at once a mathematical specialist and a systems analyst whose task is to confront complex, real-world problems with mathematical analysis. In business and industry the applied mathematician has opportunities to utilize both background and training in solving problems of a practical nature.



## Bachelor of Science in Statistics

The Bachelor of Science in Statistics is for students who are planning careers as statisticians in industry, business, government, or biomedical research. Statistics is basic to quantitative research in the biological, physical, and social sciences. Because its methods are based on mathematics, it requires a firm understanding of mathematical methods as well as an appreciation of scientific method, computation, and practical problems. To give the student both breadth and depth and to introduce the student to a variety of fields where statistics may be applied, three emphases are offered: science, business, and economics.



**Scan to learn more about the Mathematics programs:**

