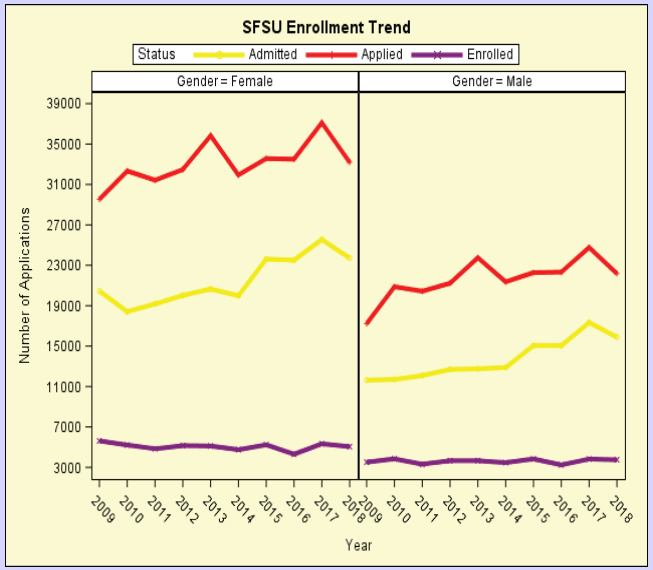
Department Of Mathematics Faculty

Federico Ardila	Combinatorics
Sheldon Axler	Functional Analysis
David Bao	Differential Geometry
Matthias Beck	Analytic Number Theory, Discrete Geometry
Henry Boateng	Scientific Computing, Computational Chemistry, Applied Mathematics
Emily Clader	Algebraic Geometry
Luella Fu	Large Scale Statistics
Arek Goetz	Dynamical Systems
Joseph Gubeladze	Algebraic Combinatorics, K-Theory
Shandy Hauk	Mathematics and Statistics Education, Dynamical Systems
Tao He	Statistics, Quantitative Biology
Serkan Hosten	Applied Algebraic Geometry
Eric Hsu	Mathematics Education
Mohammad Kafai	Statistics: Nonparametric
Gerianne Krause	Discrete Mathematics
Judith Kysh	Mathematics Education
Chun-Kit Lai	Harmonic Analysis
Jean-Pierre Langlois	Game Theory
Shidong Li	Applied Computational Harmonic Analysis
Ornella Mattei	Applied Mathematics, Mathematical Modeling
Alexandra Piryatinska	Statistics
Dustin Ross	Algebraic Geometry
Alexander Schuster	Complex Analysis
Kimberly Seashore	Mathematics Education

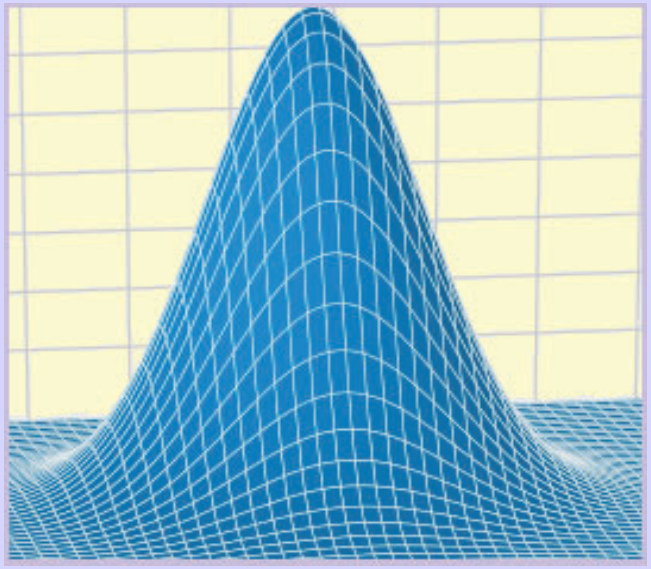
Thornton Hall 937
Department of Mathematics
San Francisco State University
1600 Holloway Avenue
San Francisco, CA 94132



SAN FRANCISCO STATE UNIVERSITY

Masters of Science in Statistical Data Science

Department of Mathematics
College of Science and Engineering



The purpose of the program is to deliver a comprehensive curriculum in the field of statistical data science to prepare students with backgrounds in statistics, mathematics, computer science, engineering, and other quantitative fields, for the data science workforce or a doctoral program.

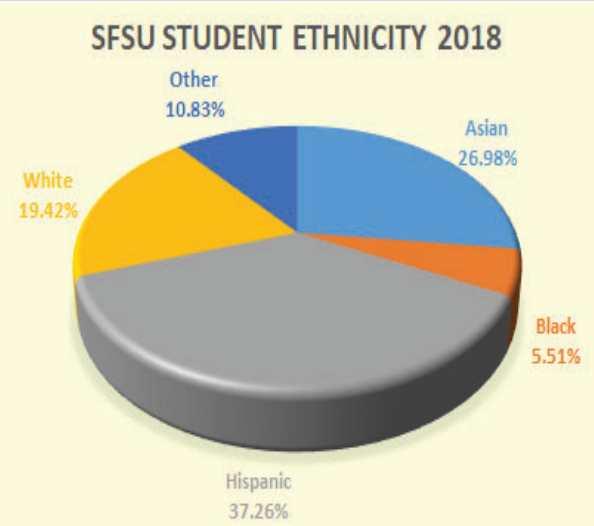
Admission Requirements

• **Baccalaureate degree** from a regionally accredited institution, or shall have completed equivalent academic preparation as determined by the appropriate campus authority;

• **Baccalaureate degree** in a quantitative field in but not limited to statistics, mathematics, computer science, physics, engineering or relevant fields. Successful applicants are expected to have completed three semesters of **calculus, linear algebra, and upper division undergraduate courses in probability and statistics with a grade of B or better.** However, an applicant who is deficient in probability theory and/or statistics may be admitted conditionally on passing **MATH 440 Probability and Statistics I and/or MATH 441/741 Probability and Statistics II** satisfactorily during the first calendar year of study;

• **Good academic standing** at the last college or university attended;

• **3.0 GPA** in their earned undergraduate degree or in the last **60 semester (90 quarter) units** completed, or have earned a post-baccalaureate degree.



Total Units Required to complete the Degree: 30 Units

Required Courses: 15 Units

Math 742	Probability Models	3
Math 748	Theory and Applications of Statistical and Machine Learning	3
Math 760	Multivariate Statistical Methods	3
Math 761	Computational Statistics	3
Math 895 OR Math 896EXM &Math 899 OR Math 898	Internship Project Culminating Experience Exam and Expository Paper Master's Thesis	3

Elective Course: 15 Units

No more than **9 units** could be from **undergraduate only** courses. Per student's specialization interest and upon Graduate Advisor's approval, the student will choose a set of electives from one of the following areas:

• **Probability and Statistics Electives:**

Math 440	Probability and Statistics I	3
Math 441/741	Probability and Statistics II	3
Math 424/724	Introduction to Linear Models	3
Math 447	Design and Analysis of Experiments	3
Math 448	Introduction to Statistical Learning and Data Mining	3
Math 449	Categorical Data Analysis	3

• **Mathematics Electives:**

Math 400	Numerical Analysis	3
Math 430	Mathematics of Optimization	3
Math 460	Mathematical Modeling	3
Math 471/771	Fourier Analysis and Applications	3
Math 477/777	Partial Differential Equations	3
Math 495	Introduction to Wavelets and Frames with Applications	3
Math 710	Measure and Integration	3
Math 725	Advanced Linear Algebra	3
Math 899	Independent Study	3

• **Computer Science Electives:**

CSC 621/821	Biomedical Imaging and Analysis	3
CSC 671/871	Neural Networks	3
CSC 675/875	Introduction to Database Systems	3
CSC 869	Data Mining	3
CSC 874	Topics in Big Data Analysis	3

• **Biology Electives:**

BIOL 458	Biometry	3
BIOL 638/738	Biometry and Genome Annotation	3
BIOL 710	Advanced Biometry	3
BIOL 815	Advanced Phylogenetic Analysis	3

Application Process

• Apply to San Francisco State University using the Cal State Apply website: **https://www2.calstate.edu/apply**

• Prepare the following documents to upload:
  • **Personal Statement** of Purpose
  • Minimum of **two letters of recommendation**
  • **Transcript(s)**

• **GRE General Test** scores, minimum 150 on the quantitative and verbal reasoning segments

• **International Students** refer to the website: https://grad.sfsu.edu/content/international-application-submission

• All graduate study applicants, regardless of citizenship, whose native language is not English must demonstrate English language proficiency. To demonstrate your English language ability, you should submit an official Test of English as a Foreign Language, **TOEFL (minimum 550/80)** or International English Language Testing System, **IELTS (minimum 6.5)**

• If applicant meets the preliminary admissions criteria, then the application is forwarded to the Mathematics Department for final review

Contacts and Further Information

MS Graduate Advisors:
Dr. Mohammad Kafai (kafai@sfsu.edu)
Dr. Alexandra Piryatinska (alpiryat@sfsu.edu)

Division of Graduate Studies Website: http://grad.sfsu.edu

Office of International Programs Website: http://oip.sfsu.edu

Mathematics Department Website: http://math.sfsu.edu