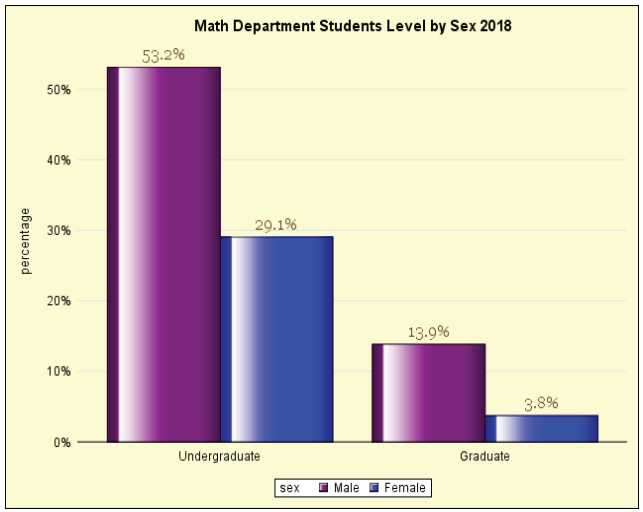
Department Of Mathematics Faculty

Federico Ardila	Combinatorics
Niny Arcila-Maya	Algebraic Topolgy Topological Data Analysis Mathematics Education
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
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
Chun-Kit Lai	Harmonic Analysis
Shidong Li	Applied Computational Harmonic Analysis
Ananda Majumdar	Statistics
Ornella Mattei	Applied Mathematics, Mathematical Modeling
Alexandra Piryatinska	Statistics
Dustin Ross	Algebraic Geometry
Alexander Schuster	Complex Analysis
Kimberly Seashore	Mathematics Education

Thornton Hall 323
Department of Mathematics
San Francisco State University
1600 Holloway Avenue
San Francisco, CA 94132



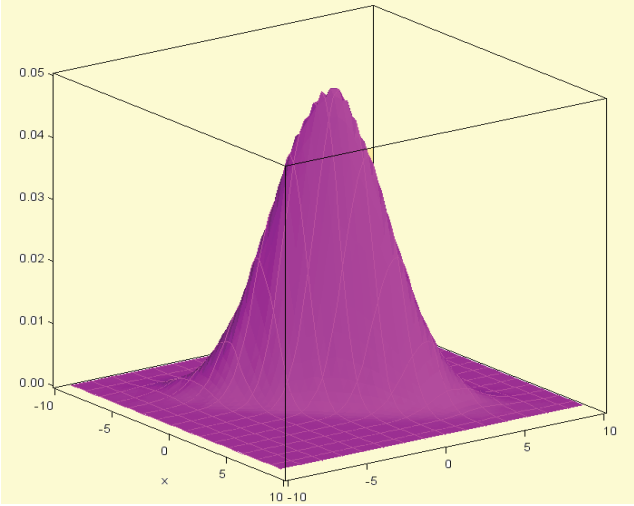
SAN FRANCISCO STATE UNIVERSITY

Bachelor of Science in

Statistics

Department of Mathematics

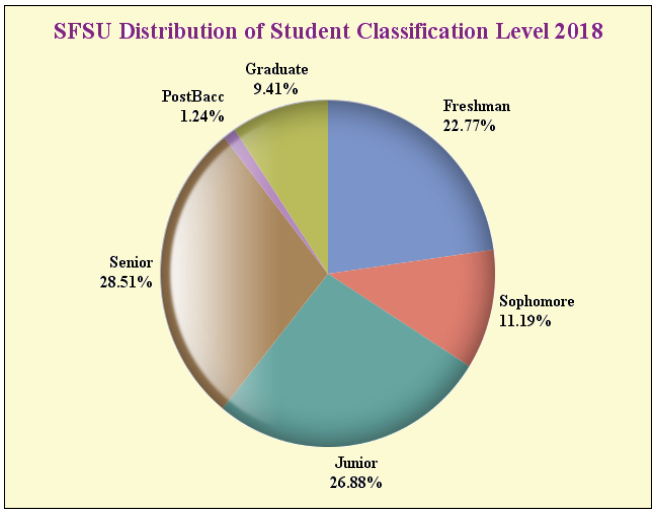
College of Science and Engineering



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.

Statistics is important for all sciences because a great deal of advanced work in each scientific discipline involves statistical analysis for proper interpretation of data. In addition, many laws, proposals, and programs in society require statistics to evaluate collected quantitative data.

To give the students both breadth and depth and to introduce the students to a variety of fields where statistics may be applied, we offer four emphases for the degree: Science, Economics, Business Decision Science, and Business Information Systems.



Total Major Units Required to Complete the Degree: 55 Units

46 Units: Required Core Courses

Math 226	Calculus I	4
Math 227	Calculus II	4
Math 228	Calculus III	4
Math 301	Exploration and Proof(GWAR)	3
Math 209	Mathematical Computing	3
Math 325	Linear Algebra	4
Math 338	Introduction to SAS	3
Math 440	Probability and Statistics I	3
Math 441	Probability and Statistics II	3
Math 424	Introduction to Linear Models	3
Math 442	Probability 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

May substitute CSC 215, or CSC 309 for Math 209

9 Units : Guided Elective Courses:

3 Upper-division or graduate courses with advisor's approval from one of the 4 Guided Elective

Guided Elective in Science:

Math 370	Real Analysis	3
Math 376	Ordinary Differential Equations	3
Math 400	Numerical Analysis	3
Math 425	Applied and Comp Linear Algebra	3
Math 430	Mathematics of Optimization	3
Math 443	Introduction to Time Series Analysis	3
Math 460	Mathematical Modeling	3

Guided Elective in Economics:

Econ 301	Intermediate Microeconomics	3
Econ 302	Intermediate Macroeconomics	3
Econ 312	Introduction to Econometrics	3
Econ 715	Mathematical Economics	3
Econ 731	Econometric Theory and Applications	3
Econ 825	Applied Time Series Econometrics	3

Guided Elective in Business DS:

DS 311	Technologies in Data Analytics	3
DS 408	Computer Simulation	3
DS 412	Operations Management	3
DS 604	Applied Business Forecasting	3
DS 624	Quality Management	3

Guided Elective in Business ISYS:

ISYS 363	Information Systems for Management	3
ISYS 463	Information Systems Analysis and Design	3
ISYS 569	Information Systems for Business Process Management	3
ISYS 650	Business Intelligence	3

Contact:

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