

M.A./M.S. MATHEMATICS

Admission Requirements

1. Admission to the Graduate Division.
2. International students must have achieved a score of at least 550 on the TOEFL exam (NO TOEFL waiver).
3. Completion of at least 18 semester units of upper division mathematics for the M.A.(at least 24 for the M.S.) with a grade point average of at least a 3.0. The courses taken must be acceptable toward a bachelor's degree in mathematics.
4. Letters of recommendation (1-3), sent directly to the Mathematics Graduate coordinator at the address below.

IF YOU DO NOT MEET THE ABOVE REQUIREMENTS

Students who meet the minimum requirements for admission to the Graduate Division but do not meet the requirements for admission to the master's degree program may be admitted as Conditionally Classified students.

Graduation Requirements: M.A./M.S. Mathematics

1. A student finds a Department faculty member willing to serve as a thesis or writing project director. With that director's help, the student chooses a topic for the thesis or writing project.

The student must then pass a Qualifying Examination--oral or written at the student's election--that covers material generally relevant to the area of the proposed thesis or writing project. Specific details about the material to be covered will be determined in consultation with the three-person committee of faculty members who will examine the student.

Note: students must pass this Qualifying Examination before they may begin formal work on a thesis or writing project.

2. Twelve units of 200- level courses in mathematics for M.A. students, and eighteen units of 200-level courses in mathematics for M.S. students from the following list. For both M.A. and M.S. students, these courses must include a year sequence.

Math 211A.....	Geometry of Projective Spaces
Math 211B.....	Advanced Topics in Geometry
Math 213A.....	Introduction to Smooth Manifolds
Math 213B.....	Introduction to Riemannian Geometry
Math 221A.....	Higher Algebra I
Math 221B.....	Higher Algebra II
Math 226.....	Theory of Numbers
Math 229.....	Advanced Matrix Theory
Math 231A.....	Real Analysis I
Math 231B.....	Real Analysis II
Math 233A.....	Applied Mathematics I
Math 233B.....	Applied Mathematics II
Math 234.....	Advanced Dynamical Systems
Math 235.....	Wavelets and their Applications
Math 238.....	Advanced Complex Variables
Math 243A.....	Advanced Numerical Analysis
Math 243B.....	Advanced Topics in Numerical Analysis
Math 261A.....	Regression Theory and Methods
Math 261B.....	Design and Analysis of Experiments
Math 265.....	Time Series Theory and Methods
Math 266.....	Survival Analysis and Reliability
Math 271A.....	Mathematical Logic
Math 271B.....	Advanced Mathematical Logic
Math 275.....	Topology
Math 279A.....	Graph Theory
Math 279B.....	Advanced Graph Theory
Math 285.....	Advanced Topics in Mathematics

3. Fifteen additional units of electives for M.A. students and (nine for M.S. students). These must be in 100- or 200- level mathematics

courses, with certain exceptions allowed as described in the general catalog. A maximum of 3 units of Math 180 or Math 298 may be included. See below for other restrictions on these units.

4. Satisfy the University's Competency in Written English requirement. For details visit : www.sjsu.edu/gape/current_students/completing_masters/index.htm

5. Obtain a faculty thesis (or writing project) advisor and complete a thesis (or writing project) in mathematics.

RESTRICTIONS

Math 101, 105, 106, 107A, 107B, 110L, and education courses applied toward the Single Subject Credential are not applicable toward the M.A. Mathematics nor the M.S. Mathematics degree. Math 133A, 201A, and 201B are not applicable toward the M.S. Mathematics degree.

Applying for Graduation

With the aid of the Graduate Coordinator, students must complete and file the Departmental Request for Candidacy and Graduate Degree Program form with Graduate Studies before the posted deadline (usually 8 months before proposed graduation date). Students must file the Application for Award of Master's Degree form before posted deadline (usually 3 months before the proposed graduation date). These forms, and the precise deadlines, are available at: www.sjsu.edu/gape/forms and www.sjsu.edu/gape/current_students/deadlines.

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San Jose State University
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<http://www.sjsu.edu/math/>

For further information about the mathematics graduate program at SJSU, contact Dr. Richard Kubelka at (408) 924-5132 or email kubelka@math.sjsu.edu. Visit: www.math.sjsu.edu/~kubelka

For graduate admissions & program evaluation (for applications and information), visit: www.sjsu.edu/gape or contact (408) 924-2480

Online SJSU Catalog: <http://info.sjsu.edu>

Mathematics Faculty

- Alperin, Roger (Ph.D., Rice University, 1973)
Algebra
- Becker, Joanne Rossi (Ph.D., University of Maryland, 1979)
Mathematics Education
- Beeson, Michael (Ph.D., Stanford University, 1972)
Automated Deduction (theorem-proving by Computers),
Software for Learning and Teaching Mathematics,
Algorithms for Symbolic Computation, Minimal Surfaces,
Constructive Mathematics
- Blockus, Marilyn (Ph.D., Johns Hopkins University, 1977)
Algebraic Topology
- Bremer, Martina (Ph.D., Purdue University, 2006)
Biostatistics, Statistics
- Cayco, Maria (Ph.D., Carnegie-Mellon University, 1985)
Numerical Partial Differential Equations, Finite Element
Methods, Numerical Linear Algebra, Computational Fluid
Dynamics
- Crunk, Steven (Ph.D., University of Pennsylvania, 1999)
Statistics, Time Series
- Dodd, Roger (Ph.D., Hull University, England, 1970)
Integrable Equations, Dynamical Systems, General
Relativity
- Foster, Leslie (Ph.D. Brown University, 1977)
Numerical Analysis, Scientific Computation
- Goldston, Daniel (Ph.D., University of California, Berkeley,
1981)
Number Theory
- Hsu, Tim (Ph.D. Princeton University, 1994)
Algebra, Combinatorics
- Jackson, Bradley (Ph.D., University of Maryland, 1977)
Graph Theory, Combinatorics, Analysis of Algorithms
- Katsuura, Hideo (Ph.D., University of Delaware, 1984)
Topology
- Kellum, Kenneth (Ph.D., University of Alabama, 1971)
Real Analysis, Point-Set Topology
- Koev, Plamen (Ph.D., University of California, Berkeley, 2002)
Numerical Linear Algebra, Computational Mathematics,
Applied Multivariate Statistical Analysis, Random Matrix
Theory.
- Lee, Bee Leng (Ph.D., University of Wisconsin-Madison, 2000)
Statistics, Semiparametric Inference, Survival Analysis
- Kubelka, Richard (Ph.D., Stanford University, 1980)
Algebraic Topology, Number Theory, Statistics
- Maruskin, Jared (Ph.D., University of Michigan, 2008)
Dynamical Systems, Applied Mathematics, Mathematical
Physics.
- Ng, Ho-Kuen (Ph.D., University of California, Berkeley, 1982)
Algebra, Operations Research, Actuarial Science
- Obaid, Samih (Ph.D., Pennsylvania State University, 1977)
Elasticity Theory, Fluid Mechanics, Integral Equations,
Complex Analysis, Fibonacci Sequence
- Pence, Barbara (Ph.D., Stanford University, 1974)
Mathematics Education
- Peterson, Brian (Ph.D., University of California,
Berkeley, 1976)
Algebra, Number Theory
- Pfiefer, Richard (Ph.D., University of California, Davis, 1982)
Geometry, Convexity and Related Inequalities
- Rivera, Ferdinand (Ph.D., Ohio State University, 1998)
Mathematics Education, Cultural Studies
- Roddick, Cheryl (Ph.D., Ohio State University, 1997)
Mathematics Education
- Saleem, Mohammad (Ph.D., University of California, Davis,
1988)
Numerical Analysis, Mathematical Fluid Dynamics,
Computational Linear Algebra, Mathematical Modeling
- Schmeichel, Edward (Ph.D., Northwestern University, 1974)
Combinatorial Mathematics, Computational Complexity
- Shubin, Tatiana (Ph.D., University of California,
Santa Barbara, 1983)
Number Theory, Algebra, Finite Geometries,
Combinatorics
- Simić, Slobodan (Ph.D., University of California, Berkeley,
1995)
Dynamical Systems, Geometric Control Theory,
Subriemannian Geometry
- Sliva Spitzer, Julie (Ph.D., The University of North Carolina
at Chapel Hill, 1998)
Mathematics Education
- So, Wasin (Ph.D., University of California, Santa Barbara,
1991)
Linear Algebra
- Stanley, Maurice (Ph.D., University of California, Berkeley,
1984)
Mathematical Logic