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 semester units of upper division mathematics for the M.S.) with at least a 3.0 grade point average. The courses must be acceptable toward a bachelor's degree in mathematics.
4. Satisfactory completion of the CSU baccalaureate graduation requirement for competency in written English. Students who have not already satisfied this requirement must obtain a sufficiently high score on the WST (Writing Skills Test) or must complete Math 100W with a grade of C or better.

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. After all conditions have been met, students should submit a petition for Change of Classification in Master's Program.

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

1. Students must pass qualifying examinations on fundamental ideas from undergraduate mathematics. All students must pass a written exam on linear algebra and real analysis. The topics are those normally covered in Math 129A and Math 131A. Students may obtain guidance in preparing for this exam by enrolling for one unit of Math 298.

   All students must pass a second exam covering two upper division mathematics courses (excluding Math 129A and Math 131A). In consultation with the graduate coordinator, the student may choose the two courses and choose either a written or an oral exam. Normally, the student will choose courses related to a possible thesis topic.

   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 213............................................................Advanced Differential 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 238............................................................Advanced Complex Variables
Math 243............................................................Advanced Numerical Analysis
Math 271A............................................................Mathematical Logic
Math 271B............................................................Advanced Mathematical Logic
Math 275............................................................Topology
Math 279............................................................Graph Theory
Math 285............................................................Advanced Topics in Mathematics

3. Fifteen additional units of electives for M.A. students and nine additional units of electives 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. 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 program approval forms two semesters before graduation. These forms are available in the Department of Mathematics office and must be returned to that office.

For More Information

Department of Mathematics
San Jose State University
One Washington Square
San Jose, CA 95192-0103
(408) 924-5100; Fax (408) 924-5080
http://www.math.sjsu.edu

Contact Dr. Richard Kubelka at (408) 924-5132 or kubelka@math.sjsu.edu for further information about the math graduate program at SJSU.

See also www.math.sjsu.edu/~kubelka.

Graduate Studies & Research (for applications and information):
www.sjsu.edu/gradstudies, (408) 924-2480

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

over 10/02
Mathematics Faculty

Alperin, Roger (Ph.D., Rice University, 1973) Algebra
Becker, Joanne Rossi (Ph.D., University of Maryland, 1979) Mathematics Education
Bergthold, Trisha (Ph.D., University of Oklahoma, 1999) Mathematics Education
Billik, Martin (Ph.D., M.I.T., 1965) Numerical Analysis, Modeling, Analysis, Geometry
Blockus, Marilyn (Ph.D., Johns Hopkins University, 1977) Algebraic Topology
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
Day, Jane (Ph.D., University of Florida, 1964) Linear Algebra
Dodd, Roger (Ph.D., Hull University, England, 1970) Integrable Equations, Dynamical Systems, General Relativity
Goldston, Daniel (Ph.D., University of California, Berkeley, 1981) Number Theory
Hamann, Eloise (Ph.D., University of Minnesota, 1973) Commutative Algebra, Polynomial Rings, Power Series Rings
Hsu, Tim (Ph.D. Princeton University, 1994) Algebra
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
Kubelka, Richard (Ph.D., Stanford University, 1980) Algebraic Topology, Number Theory, Statistics
Mitchem, John (Ph.D., Western Michigan University, 1970) Graph Theory and Combinatorics, Algorithm Analysis
Morris, Hedley (Ph.D., University of London, 1971) Nonlinear Wave Theory, Soliton Physics, Global Analysis, Dynamical Systems Theory, Mathematical Modeling
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., UC Berkeley, 1976) Algebra, Number Theory
Pfiefer, Richard (Ph.D., UC 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., UC 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., UC, Santa Barbara, 1983) Number Theory, Algebra, Finite Geometries, Combinatorics
Sliva, 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
Valdes, Linda (Ph.D., UC Santa Cruz, 1990) Graph Theory, Computer Algorithms in Graph Theory
Weddington, Donald (Ph.D., University of Miami, 1968) Analysis, Topology

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