San José State UNIVERSITY

DEPARTMENT OF MATHEMATICS

M.A. MATHEMATICS, Concentration in Mathematics Education

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 21 semester units of upper division mathematics 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. Mathematics, Concentration in Mathematics Education

1. Students must pass a written qualifying examination on linear algebra and real analysis. This Basic Exam must be taken during a student's first year; its 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.

Students must also pass a written exam on fundamental ideas related to the concentration in Mathematics Education. These ideas are normally covered in Math 201A, Math 201B, and MathEd 209.

Note: students must pass both qualifying exams before they may begin their formal thesis work.

2. Nine units from Math 201A, Math 201B, and MathEd 209. Students who have already completed one or more of these courses as undergraduates must replace each previously completed course with a three-unit course.

3. Twelve units of 200- level courses in mathematics from the following list. These courses must include a one-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

4. Six additional units of electives. 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.

5. Satisfy the University's Competency in Written English requirement. See www.sjsu.edu/gradstudies for details.

6. 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.

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/gradstudies.

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 mathematics 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

over

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

10/05

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

Bergthold, Trisha (Ph.D., University of Oklahoma, 1999)
Mathematics Education

Blockus, Marilyn (Ph.D., Johns Hopkins University, 1977)
Algebraic Topology

Bozovic, Natasha (Ph.D., University of Belgrade, 1975)
Theory of Algorithms, Group Theory, Foundations of Mathematics, Mathematical Physics

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

Day, Jane (Ph.D., University of Florida, 1964)
Linear Algebra

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

Grantcharov, Dimitar (Ph.D., University of California, Riverside, 2003)
Lie Algebras, Superalgebras, Geometric Quantization

Hsu, Tim (Ph.D. Princeton University, 1994)
Algebra, Combinatorics

Jackson, Bradley (Ph.D., University of Maryland, 1977)
Graph Theory, Combinatorics, Analysis of Algorithms

Katsuura, Hidefumi (Ph.D., University of Delaware, 1984)
Topology

Kellum, Kenneth (Ph.D., University of Alabama, 1971)
Real Analysis, Point-Set Topology

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

Malyshev, Igor (Ph.D., Kiev State University, Ukraine, 1973)
Partial Differential Equations, Functional Analysis, Applied Mathematics

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., 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

Valdes, Linda (Ph.D., University of California, Santa Cruz, 1990)
Graph Theory, Computer Algorithms In Graph Theory

Weddington, Donald (Ph.D., University of Miami, 1968)
Analysis, Topology

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