Portland State University is an urban, comprehensive, research university. It is the largest university in Oregon, with over 28,000 students and more than 200 undergraduate, master's, and doctoral degrees. The campus is centered on the beautiful, tree-lined Park Blocks in downtown Portland, close to museums, cultural events, shopping, and walks along the Willamette River or in old-growth Forest Park. A variety of housing options convenient to campus are available for both faculty and students.

Portland
Located in the heart of the Pacific Northwest, “America’s Best Big City” is a scenic place offering the perfect combination of urban sophistication, small town accessibility, and the great outdoors. Portland is ranked as one of the top cycling cities in the United States and an accessible public transportation system links the metro area’s neighborhoods, restaurants, parks, shopping districts, and sports venues. In just over an hour drive from Portland, you can hit the beach on the Oregon Coast, hike in Eastern Oregon’s High Desert, enjoy world-class windsurfing in the Columbia Gorge, and ski year-round on Mt. Hood.

MA/MS in Mathematics
The Master of Arts/Sciences in mathematics is designed for those interested in strengthening their understanding of mathematics. The program prepares the students for community college teaching, industrial work in mathematics, or further advanced work toward a Ph.D. in mathematics. It trains students in areas such as algebra, analysis, computational mathematics, control theory, dynamical systems, game theory, geometry, graph theory, numerical analysis, probability, topology, mathematical physics and applied mathematics. The program is intended for individuals with a strong background in mathematics.

Planning an MA/MS Degree Program
The department offers courses in pure and applied mathematics and in statistics. Students may choose an emphasis in one or more of these areas. Students also need to plan programs that will prepare them to pass two MA/MS examinations, at least one of which is in Algebra or Analysis. New students are urged to meet with the MA/MS Coordinator regarding degree requirements and for help with program planning.

Degree Requirements
Candidates must complete an approved 45-credit program which includes at least 30 credits in mathematics or statistics. These 30 credits must include courses distributed as follows: Two 9-credit sequences at the 600 level, and the 3-credit Mth 501 Mathematical Literature and Problems.

In addition, the student must pass two written Master’s examinations. Students interested in pursuing the MA degree must also show proficiency in a second language.

Core courses in mathematics
- Introduction to Real Analysis
- Theory of Ordinary Differential Equations
- Elementary Differential Geometry
- Partial Differential Equations
- Set Theory and Topology
- Graph Theory
- Topics in Geometry
- Topics in Mathematical Modeling
- Topics in Combinatorics
- Introduction to Abstract Algebra
- Advanced Linear/Multilinear Algebra
- Number Theory
- Numerical Calculus
- Complex Analysis and Boundary Value Problems
- Mathematical Control Theory
- Game Theory

CONTINUES ON OTHER SIDE >>>

Fariborz Maseeh Department of Mathematics and Statistics
Neuberger Hall 334
724 SW Harrison Street
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503-725-3621
Core Mathematics Faculty

Steve Bleiler
PhD (1981) University of Oregon
Research interests: Game theory, topology, geometry, financial mathematics, combinatorics, optimization under uncertainty.

John Caughman
PhD (1998) University of Wisconsin
Research interests: Algebraic combinatorics, algebraic graph theory.

Dacian Daescu
PhD (2001) University of Iowa
Research interests: Data assimilation, sensitivity analysis, parameter estimation, numerical optimization, inverse problems.

Marek Elżanowski
PhD (1975) Polish Academy of Sciences
Research interests: Continuum mechanics, defects, elastic cavitation, applied differential geometry.

Brittany A. Erickson
PhD (2010) University of California, Santa Barbara

Derek Garton
PhD (2012) University of Wisconsin—Madison
Research interests: Number Theory and Arithmetic Dynamics.

Jay Gopalakrishnan
PhD (1999) Texas A&M University
Research interests: Numerical analysis and scientific computation, especially for partial differential equations and their application to physical, biological, and engineering systems.

Bruno Jedynak
PhD (1995) University of Paris Orsay
Research interests: Probabilistic games, statistical learning, information theory, statistical modeling in computer vision, medical image processing, and computational neurology.

Bin Jiang
PhD (1999) University of California, Santa Barbara
Research interests: Computational electromagnetism, numerical simulation in nanoscale optics.

Gerardo Lafferriere
PhD (1986) Rutgers University
Research interests: Mathematical control theory, hybrid systems, mathematical biology.

Paul Latiolais
PhD (1984) Tulane University
Research interests: Topology, algebra, combinatorial group theory.

Mau Nam Nguyen
PhD (2007) Wayne State University

Joyce O’Halloran
PhD (1979) University of Washington
Research interests: Algebra, control theory.

Jeffrey Ovall
PhD (2004) University of California, San Diego
Research Interests: Numerical methods for partial differential equations and integral equations, with emphasis on treatment of singular solutions.

Serge Preston
PhD (1978) Steklov Institute of Mathematics, USSR
Research interests: Differential geometry, variational calculus, continuum mechanics, thermodynamics.

Panayot S. Vassilevski
Research interests: Computational Mathematics, numerical Linear Algebra and Multilevel Methods, with applications to flow in reservoir simulations, electromagnetism, and large-scale discrete networks.

J. J. P. (Peter) Veerman
PhD (1986) Cornell University

Admissions
The MA and MS in Mathematics graduate programs offer rolling admissions which follow the University’s admission priority processing deadlines. Please note that the following dates are priority filing dates only. Applications will still be accepted after these dates.

<table>
<thead>
<tr>
<th>Term</th>
<th>Deadline</th>
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<tr>
<td>Fall</td>
<td>April 1</td>
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<tr>
<td>Winter</td>
<td>September 1</td>
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<tr>
<td>Spring</td>
<td>November 1</td>
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<tr>
<td>Summer</td>
<td>February 1</td>
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</table>

Applicants seeking a graduate assistantship should apply to both the department and the university by February 1st for the following academic year. A minimum of two letters of recommendation is required if applying for a graduate teaching assistantship.

Find out more about admission requirements at www.pdx.edu/math/msma-mth-application-instructions.

Financial Support
The department has a limited number of Graduate Assistantships available on a competitive basis. Graduate Assistants receive both tuition remission and a stipend for the academic year. Additional information can be found at www.pdx.edu/math/graduate-teaching-assistantships.

For More Information
For more information, including details on applications, employment and financial aid, please visit www.pdx.edu/math, or call 503-725-3621.