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.

MS in Mathematics for Teachers
The Masters of Science in Mathematics for Teachers is designed for those interested in strengthening their understanding of mathematics to enrich the teaching of mathematics. The program prepares teachers in subjects such as geometry, algebra, analysis/calculus, probability, statistics, discrete mathematics, and the use of calculators and computers in the classroom. The program is intended for individuals with a mathematics degree or a strong background in mathematics. An MS MTCH candidate must complete an approved program of 45 graduate credits which includes a mathematics curriculum project. A typical program would include 30 hours in Mathematics, 9 hours in Education, and 6 hours in Mathematics, Education, or other areas. In order to be admitted to the MS MTCH program, the applicant’s transcript must show successful completion of undergraduate courses in at least the following: abstract algebra, advanced calculus, linear algebra and college geometry. The program does not lead to a teaching license (see PSU GTEP).

Required Coursework
- Probability/Statistics (3 cr): Mth 581 Probability for Math Teachers or Mth 582 Statistics for Math Teachers
- Geometry (3 cr): Mth 583 Topics in Geometry for Math Teachers
- Algebra (3 cr): Mth 584 Topics in Algebra for Math Teachers
- Analysis (3 cr): Mth 585 Topics in Analysis for Math Teachers
- History/Foundations of Math (3 cr): Mth 586 Topics in the History of Mathematics
- Discrete Math (3 cr): Mth 587 Topics in Discrete Mathematics for Math Teachers
- Technology (3 cr): Mth 588 Computing Technology for Math Teachers
- Curriculum Project (3 cr): Math 501 Curriculum Research, Mathematics
- Mathematics Electives (6 cr): Approved graduate-level mathematics courses
- Education Courses (9 cr): Approved graduate education courses, including a course on mathematics teaching strategies
- University Electives (6 cr): Graduate level courses (Mathematics, Education, or other) approved by Adviser

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 (Fall, Winter and Spring Terms). Additional information can be found at www.pdx.edu/math/graduate-teaching-assistantships. Applicants will be asked during the online departmental application process to indicate if they are interested in receiving a graduate assistantship.

Alternate funding opportunities are also available on the Office of Graduate Studies website at www.pdx.edu/ogs/financing-your-education and information on financial aid is available on the University website www.pdx.edu/finaid.
Graduate Certificate in Mathematics for Middle School Teachers

The Graduate Certificate in Mathematics for Middle School Math Teachers (GCMS) in the Fariborz Maseeh Department of Mathematics and Statistics consists of eight graduate mathematics courses specifically designed for teachers who desire to teach middle school mathematics. Upon successful completion of this 24-credit program, MTH 590 - MTH 596 and Teaching & Learning in the MS Math Classroom MTH 597, a Graduate Certificate is awarded. If desired, the graduate credit received may also be applied towards an MA or MS in the Department of Curriculum and Instruction in the Graduate School of Education. The program provides a broad mathematics background appropriate for middle school teachers, a familiarity with the current middle school curriculum ideas, and a sensitivity to the special characteristics and needs of early adolescents.

The goals of the middle school mathematics certificate program are to offer a comprehensive mathematics program that:

- Directly relates the content of mathematics courses for pre- and in-service teachers to the mathematical content appropriate for middle school students.
- Is geared to the special characteristics of the student population of an urban university, and takes advantage of the varied resources found in an urban setting.
- Models a philosophy of teaching and learning mathematics that is consistent with current recommendations for effective instruction in middle school classrooms.

The certificate program consists of the following eight mathematics courses:

- MTH 590 Computing in Mathematics for Middle School Teachers (3 cr)
- MTH 591 Experimental Probability and Statistics for Middle School Teachers (3 cr)
- MTH 592 Problem Solving for Middle School Teachers (3 cr)
- MTH 593 Geometry for Middle School Teachers (3 cr)
- MTH 594 Arithmetic and Algebraic Structures for Middle School Teachers (3 cr)
- MTH 595 Historical Topics in Mathematics for Middle School Teachers (3 cr)
- MTH 596 Concepts of Calculus for Middle School Teachers (3 cr)
- MTH 597 Teaching and Learning in the Middle School Mathematics Classroom (3 cr)

Total: 24 credits

Admissions

The department offers 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.

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<th>Term</th>
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<tr>
<td>Fall</td>
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<td>Summer</td>
<td>February 1</td>
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MS in Mathematics for Teachers

Applicants seeking a graduate assistantship should apply to both the department and the university by February 1st for the following academic year.

Admissions materials include:

- A short statement about your reason for pursuing an MS MTCH degree, including your professional goals.
- A complete set of transcripts.
- A minimum of two letters of recommendation. These should come from a professional or academic author who can comment on your ability to do graduate work and your teaching potential.
- Optional: CV or resume

GRE scores are not required for admission to the MS in Mathematics for Teachers. Find out more about admission requirements at www.pdx.edu/math/ms-mtch-application-instructions.

Graduate Certificate in Mathematics for Middle School Teachers

Admissions materials include:

- A short statement about your reason for pursuing an MS MTCH degree, including your professional goals.
- A complete set of transcripts.

Find out more about admission requirements at www.pdx.edu/math/graduate-certificate-in-mathematics-for-middle-school.

For More Information

The Fariborz Maseeh Department of Mathematics and Statistics at Portland State University offers many courses in mathematics, statistics and mathematics education. For more information about these and other programs, including details on applications, employment and financial aid, please visit www.pdx.edu/math, or call 503-725-3621.