Programs of Study

The department offers programs of study leading to the M.S. degree in mathematics and the Ph.D. degree in applied mathematics. Students in the M.S. program have considerable flexibility in designing a plan of study to suit their interests. To satisfy the program requirement of 33 hours of graduate credit, students may choose from courses in modern algebra, real analysis, topology, complex analysis, partial differential equations, numerical analysis, ordinary differential equations, mathematical physics, and several course offerings in probability and statistics. There are both thesis and non-thesis options in the M.S. program.

The Ph.D. program is concentrated in the areas of probability and statistics, computational mathematics, and partial differential equations. Students are required to complete at least 60 hours of course work (including courses credited toward the M.S. if appropriate) and 24 credit hours of research culminating in the completion of a dissertation containing original publishable research. Ph.D. candidates must demonstrate knowledge of either two foreign languages or one foreign language and a computer language.

Assistantships

Teaching assistantships are available for qualified students. Currently, most full-time students receive financial assistance. The department has 18 teaching assistantships which pay $13,800 to $14,000 stipend range for the 2010-2011 academic year. Teaching assistants and teach one 5-hour course per semester. There is also the possibility of summer teaching for some graduate students. Students whose native language is not English are required to attain a score of 50 on the Test of Spoken English (TSE) before teaching at WSU.

Expenses

For 2010-2011, state resident tuition is $215.85 per credit hour plus fees of $37.80 per credit hour. All graduate assistants qualify for resident rates. There is also 100 percent tuition reimbursement for teaching assistants. Teaching assistants take 9 credit hours per semester. Room and board in the residence halls costs about $7000 per year. Various living accommodations are available near the campus for both single and married students.

The University

Wichita State University began as Fairmount College in 1895, became a municipal university in 1926, and joined the state system in 1964. It is one of the three universities in Kansas that offers doctoral programs. Wichita State’s attractive campus is adorned with seventy pieces of outdoor sculpture by internationally recognized artists. The Department of Mathematics and Statistics is housed in Jabara Hall, a new science building with modern offices for graduate teaching assistants. Total university enrollment is approximately 15,000, including more than 3,500 graduate students. The university offers over 60 different graduate programs. There are currently about 30 full-time and 10 part-time students in the mathematics graduate programs.
Application

Admission to the graduate programs in mathematics and statistics requires a bachelor’s degree and demonstrated aptitude in mathematics or a related field. The GRE Subject Test in mathematics is required for admission to the Ph.D. program but not the MS program. The TOEFL is required for all international applicants, with a required minimum score of 550 for the paper-based test and 213 for the computer-based test.

To receive first consideration for assistantships, applicants should be sent before March 1 for the following academic year or by October 1 for Spring enrollment. However, late applications will be considered until all positions are filled.

Graduate Faculty

Professors

A. Acker, Partial Differential Equations; PhD, Boston University, 1972
A. Bukhgeym, Inverse Problems; PhD, Novosibirsk, 1974
D. Chopra, Statistics, Combinatorial Math; PhD, University of Nebraska, 1968
T. DeLillo, Numerical Conformal Mapping; PhD, New York University, 1985
A. Elcrat, Partial Differential Equations; PhD, Indiana University, 1967
B. Fridman, Several Complex Variables; PhD, Leningrad Pedagogical Institute, USSR, 1973
V. Isakov, Partial Differential Equations; PhD, Institute of Mathematics, USSR, 1973
Z. Jin, Partial Differential Equations & Geometric Analysis; PhD, University of Pennsylvania, 1990
K. Lancaster, Partial Differential Equations; PhD, Oregon State University, 1981
C. Ma, Statistics; PhD, University of Sydney, 1997
D. Ma, Several Complex Variables, Geometric Analysis; PhD, Washington University, 1990
K. Miller, Partial Differential Equations; PhD, University of Chicago, 1975
H. Mukerjee, Probability Theory, Statistics; PhD, State University of New York, Binghamton, 1977
P. Parker, Differential Geometry, Math Physics; PhD, Oregon State University, 1977
Z. Sun, Inverse Problems; PhD, University of California, Los Angeles, 1987

Associate Professors

S. Brady, Analysis; PhD, Indiana University, 1968
L. Ho, Several Complex Variables, Partial Differential Equations; PhD, Princeton University, 1984
Hu, Probability Theory & Statistics; PhD, University of Missouri-Columbia, 1993
T. Jeffres, Differential Geometry; PhD, SUNY at StonyBrook, 1996

Assistant Professors

T. Lu, Numerical Analysis; Ph.D., Stony Brook University, 2005

Correspondence and Information

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