



## MANHATTAN, KANSAS

Manhattan is a safe and pleasant community, which is home to about 50,000 residents. Attractions include the Konza Prairie, Sunset Zoo, Flint Hills Discovery Center, Tuttle Creek State Park and lake, and the Manhattan Arts Center.

KANSAS STATE UNIVERSITY

# GRADUATE PROGRAMS IN MATHEMATICS

**KANSAS STATE**  
UNIVERSITY

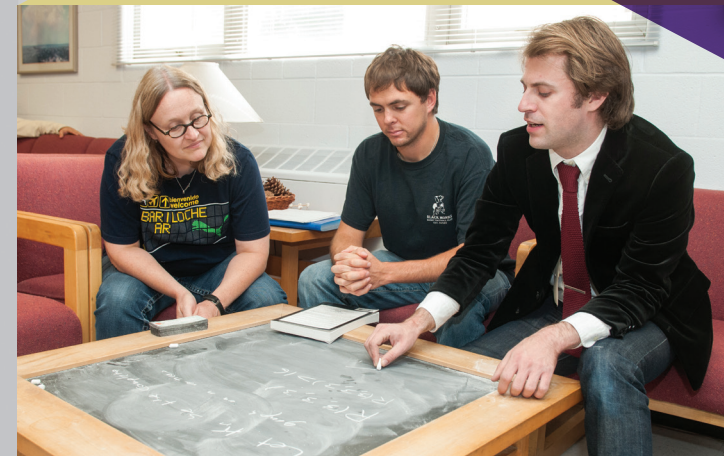
Department  
of Mathematics

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## OVERVIEW

The Department of Mathematics at K-State is a dynamic and support atmosphere in which to pursue graduate studies. With 36 permanent faculty members, two visiting assistant professors and 47 graduate students, the department has thriving research groups in most major areas of mathematics. The department ranks in the top ten percent in the nation for student outcomes and resources.



## RESEARCH AREAS

Algebra, Analysis, Geometry/Topology, Applied Math, Number Theory, Mathematics Education

## RESEARCH CENTERS

*The department houses three "Letter" centers, each of which interacts with the entire faculty through collaborative projects and activities.*

### I-Center

The Center for Integration of Undergraduate, Graduate, and Postdoctoral Research (I-Center) promotes an integrated approach to undergraduate and graduate research in the math department at K-State. The I-Center offers graduate students the opportunity to mentor undergraduates in research projects.

### M-Center

Devoted to research in mirror symmetry, tropical geometry and related areas, the M-Center is a hub of an international research network, which includes collaborators at Berkeley, UCSD, MIT, IHES, Vienna, Paris, and Milan.

### Q-Center

The Center for Quantitative Education has multiple ongoing research projects on how best to teach students in a technological world. Much of this research is done in collaboration with graduate students in both the math department and the College of Education.

## DEPARTMENTAL EVENTS

**Weekly Seminars:** Each semester there are weekly seminars in each of the major research areas, as well as several specialty areas.

**Annual lecture series:** Eight distinguished lecture series—delivered by internationally renowned mathematicians—are endowed by gifts to the department and research grants.

**Conferences:** The math department regularly hosts NSF-funded conferences that draw researchers from around the world.

## DEGREE PROGRAMS

### Doctor of Philosophy – Ph.D.

Faculty in all fields are certified to supervise doctoral thesis work, which typically takes 5-6 years to complete.

### Master of Science Degree (MS)

Students have the option of passing a Master's exam or writing either a Master's thesis or a Master's report. The degree typically takes two years to complete.

## GRADUATE CERTIFICATE IN APPLIED MATH

The Graduate Certificate is an interdisciplinary degree allowing students to gain experience in statistics, civil engineering, electrical or computer engineering, or industrial and manufacturing systems engineering while completing a program within the math department.

## FINANCIAL SUPPORT

Nearly all graduate students are employed as Graduate Teaching Assistants (GTA) during the duration of their degree program. This assignment is a salaried position that also generally includes a tuition waiver. The positions of Master GTA and Organizational GTA carry more responsibility and higher salary. Various scholarships may also supplement the GTA salary.

## PROFESSIONAL DEVELOPMENT OPPORTUNITIES

**MSRI programs:** Because the department is an institutional member of the Mathematical Sciences Research Institute (MSRI) in Berkeley, Calif., each year up to three graduate students may participate in a summer research program at MSRI.

**Course coordination:** Experienced GTAs can act as coordinators—taking full responsibility—for summer courses.

**Travel:** Funding is available for graduate students to attend and speak at conferences or in seminars at other institutions.