Overview
Kansas State University offers master's and doctoral degrees in mathematics. Our 300 faculty members have diverse mathematical interests and a common dedication to teaching and research. Our program has granted 65 master's degrees and 259 doctoral degrees over the past 10 years. Based on the current rankings by the National Research Council, our graduate program is ranked higher than most other regional programs in mathematics.

Research
The department's faculty and students are actively engaged in research, and all graduate students have close contact with the senior faculty. Our research strengths include:
- Classical, complex, and harmonic analysis
- Partial differential equations
- Operator theory and functional analysis
- Low-dimensional geometry and topology
- Algebra, representation theory, and group theory
- Mathematics education
Some researchers are pursuing these areas:
- Complex dynamics
- Symplectic geometry
- Calabi-Yau manifolds
- Mirror symmetry
- Hyperbolic PDE's
- Free boundary problems
- Nonlinear elasticity
- Deformation theory
- Global analysis
- Quantum field theory
- Representation theory of Lie algebras
- Quantum groups and quivers
- Analytic number theory

Weekly seminars are held in algebra, analysis, function theory, geometry, and number theory. Other seminars are held on various topics of interest to a group of students or faculty. Graduate students take turns presenting papers on topics of their own interest during a weekly graduate student seminar. A substantial endowment for colloquia allows us to invite mathematicians of international stature to our department. In addition, an interdisciplinary lecture series features speakers from various departments on campus and local industries. Advanced graduate students have the opportunity to participate in summer workshops at the Mathematical Sciences Research Institute in Berkeley, California.

The Prairie Analysis Seminar, a conference held each fall, alternately on our campus and the campus of the University of Kansas, gives students and faculty the opportunity to learn from and meet with the leading experts in the area of analysis.

Faculty research interests

Admissions requirements
The requirements for admission for graduate work in mathematics are 21 semester hours of work beyond the calculus level and a B average or better in courses taken in mathe-
matics. Students should have a B average in all work taken during their last two years as
undergraduates.
In most cases an applicant to our graduate programs should have completed work in mathematics at least equivalent to that required for a bachelor's degree at Kansas
State University.
How to apply: To apply online see www.math.ksu.edu/graduate/apply. Or if you
prefer, we can send you an application pack-
age. We encourage students to contact the
department before beginning the application process.
• Three hours per week of classroom teach-
ing. First-year teaching assistants normally teach college algebra, trigonometry, or cal-
culus. They usually teach the recitation sections meetings one hour per week;
were teach recitation sessions meet two to three hours per week. A teaching assistant
might teach three college algebra recita-
tion sections or other combinations to total
four to six hours per week.
• Two hours per week in help session.
Our department convenes informal help
sessions for students taking the above
courses. We require all teaching assistants
to sign up for two hours per week.
• Three hours per week office hours.
• The remaining eight hours for grading and
preparation. Grading duties are limited to
exams and exams. The daily homework is
graded by undergraduates who we employ
expressly for this purpose.
It is our philosophy that immersion in the
above activities is very beneficial to each
teaching graduate assistant's overall develop-
ment as a mathematician. It is indispensable
training for those who intend to pursue a
career teaching at a college or university.
Furthermore, it helps to build a strong sense of community among our graduate students.
All new teaching assistants are required to
attend the department's graduate teaching assistant training program. This program is
held each fall during the week before classes
begin. This intensive program prepares our
teaching assistants for the types of class-
room experiences that they will encounter.
During this week, the Graduate School offers
an orientation that provides information on
cadets of faculties of graduate study.
Assistantships and scholarships
Almost all graduate students are supported
by teaching assistantships. Students making
good progress may not be expected to be supported through their entire graduate degree program. For acade-
my year 2007-2008, the annual stipend for our graduate teaching assistants ranges
from $12,955 to $14,936 for nine months; those wishing to teach courses in the sum-
mer generally can expect to receive an addi-
tional two-month's stipend of up to $3,511.
A student's stipend increases as a result of
academic progress through the degree program.
All teaching assistants enjoy a full tuition
waiver; the remaining miscellaneous fees total approximately $2471 per semester
and are paid by the student. Low-cost health
insurance is available, and insurance plans can
be purchased to cover a student's spouse and
children.
There is also a substantial endowment for
scholarships and fellowships. U.S. citizens
and resident foreign students with excellent
records are eligible to be nominated for a
scholarship stipend awarded by the dean of
the Graduate School. It is important that stu-
dents interested in graduate awards complete their applications by early spring.
Each graduate teaching assistant has office
space consisting of a cubicle with a desk,
bookshelves, and a convenient access to a
computer. Each computer has a variety of
programs, including TeX/LaTeX capabilities,
as well as full access to the Internet. Wire-
less Internet access is available throughout
campus.
The average time that a graduate teaching assistant should expect to spend on teaching
related duties is about 16 hours per week,
divided roughly as follows:
International students
For admission to the Graduate School, all
foreign students are required to take the
TOEFL (Test of English as a Foreign Language)
and achieve a score of at least 100 (BT ver-
sion), 250 (computer version) or 600 (written
version). Students with scores between 79
and 99 (BT version), 213 and 244 (computer
version) or 550 and 568 (written version) may
be admitted provisionally and must demonstrate proficiency in English at the time of
their enrollment through the English Proficiency Test. This is similar to the TOEFL and is
admin-
istered on campus, free of charge, during the
graduate orientation week before classes
begin.
Those who wish to apply for a teaching assistantship must also pass the TSE (Test of
Spoken English) with a minimum score of
50 or attain a minimum score of 26 on the
speaking section of the TOEFL. Although we
frequently award teaching assistantships
students from non-English speaking coun-
tries, it should be noted that the TSE require-
mence is mandated by the Kansas Board of
Regents and cannot be waived. To apply for
a teaching assistantship, you must also sub-
mit your TSE score. In rare special cases, stu-
dents who are able to take the TSE in their
country may take the university's SPEAK test.
TOEFL and TSE test scores cannot be more
than two years old to be considered valid.
The English Language Program on campus
offers intensive English courses as well as
programs that are teaching assistantsh to
American culture. These courses are offered within the summer; a month or so before
the fall semester; as well as during the fall and
spring semesters.
Housing
Information about graduate student housing
offered by the university can be found online
at www.housing.ksu.edu. In particular, the
university's Jardine Apartments complex
offers several options for inexpensive apart-
ments near campus or for those who are.
ness of distance from the mathematics
department.
Several privately owned apartment complexes near campus specialize in renting to students.
Private apartment complexes and other infor-
mati on about Manhattan can be found on our
website: www.math.ksu.edu/main/graduate/ travel-information.htm
About the university
Location: Founded in 1863, as a land-grant
institution under the Morrill Act, Kansas State
University occupies a 606-acre campus in
Manhattan, Kansas. The university is 125
miles west of Kansas City via Interstate 70 in
northern Kansas. The university is near both
business and residential sections of the city.
The university is one of six universities
governed by the Board of Regents.
Recreation: Facilities include two recrea-
tional complexes with tennis, racquetball,
handball, basketball, indoor tracks, exercise
machines, swimming pools, rock climbing,
yoga, and numerous fitness and recreation
activity classes. Cultural and social programs
sponsored by the university include lecture
series, music concerts, and a theatre series.
Clubs and sports: There are organizations
for every interest, including sports clubs
during cultural and international festivities.
Sports fans may enjoy many athletic events
sponsored by the university. See the university
webpage at http://www.ksu.edu/ and follow
the links under "student life" to see the num-
ber and variety of campus organizations.
About Manhattan, Kansas
Manhattan is the largest community in
approximately 43,000 residents. Residents
are friendly, and the community has a very
low crime rate. Manhattan is in the Flint Hills
near the Big Blue and Kansas rivers. Tuttle Creek
Reservoir, one of the largest freshwater lakes in the central United States, provides
opportunities for boating, swimming, water
skiing, fishing, and camping. The Kansa Prairie
reserve, 8800 acres of native prairie used for
field research and managed by the
university, is open to hikers. Manhattan has
an active theatre group, a summer outdoor
concert series, and many recreational
activities for children and adults.
For more information
We offer a nationally recognized program in
a nurturing environment with many opportuni-
ties for close contact with the faculty. For
more information, please contact:
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Notice of nondiscrimination
Kansas State University is committed to
discrimination on the basis of race, sex,
sexual orientation, disability, religion, age,
sexual orientation, or other normative reasons, in admissions, educational programs or activities, and employment; including employment of
disabled veterans and veterans of the Vietnam Era, as required by applicable laws and regulations. Responsibility for coordina-
tion of compliance efforts and receipt of inquiries concerning Title IX of the Civil Rights Act of 1964, Title II of the Education
Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, and the Americans
With Disabilities Act of 1990, has been delegated to Chair, Human Rights. Director of Affirmative Action. Kansas State University.
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