



### Our Mission

The principal aim of graduate studies is to allow the student to develop the ability to undertake independent work. Consequently, higher quality work is expected of graduate students. A broad knowledge of the major subjects of concentration and related subjects is expected of students entering the program.

### About Our Faculty

All graduate courses are taught by departmental faculty with doctoral degrees. There is a strong research interaction among the faculty, providing opportunities for interdisciplinary study.

### Degree Plans

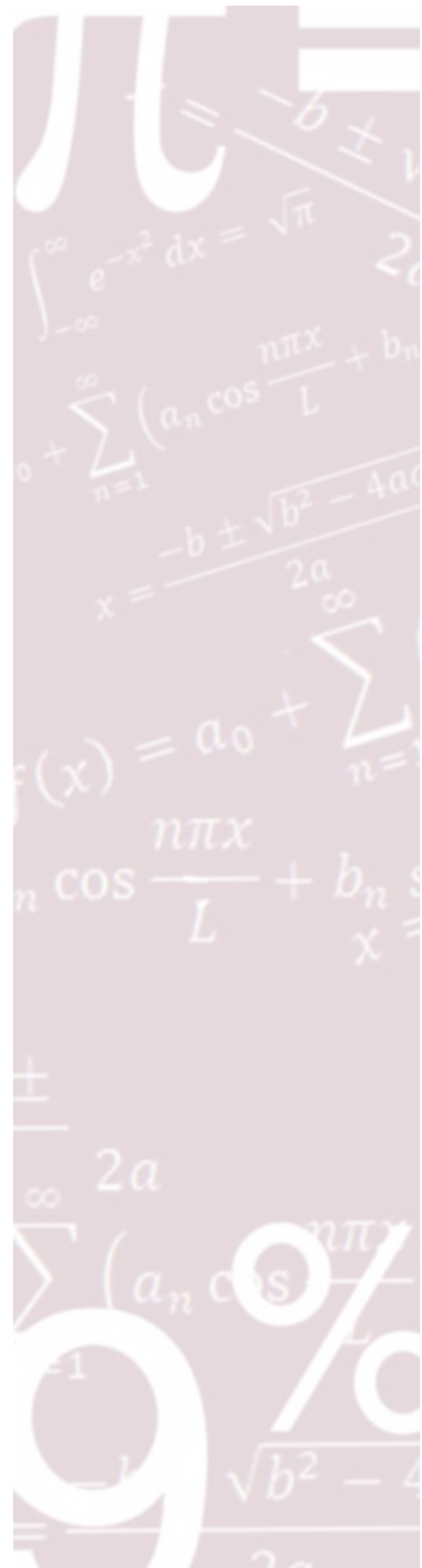
Students seeking a master's degree in mathematics may select one of the following degree plans: MS in Mathematics-Thesis Plan, MS in Mathematics-Non thesis Plan, and MS in Mathematics- Mathematics Education Non thesis Plan.

#### Thesis Plan (Total 36 SCH)

- Required Courses (15 SCH)
  - MATH 5305 Real Analysis I
  - MATH 5320 Complex Variables
  - MATH 5330 Abstract Algebra I
  - MATH 5365 Topology
  - MATH 5370 Mathematical Modeling I
- Mathematics Electives (12 SCH)
- Synthesized Required Courses (3 SCH)
  - MATH 5191 Mathematics Seminar
  - MATH 5252 Internship in Mathematics
  - MATH 5290 Research Methods in Mathematics
- Thesis (6 SCH)
  - MATH 5398 Thesis I
  - MATH 5399 Thesis II

#### Non thesis Plan (Total 36 SCH)

- Required Courses (15 SCH)
  - MATH 5305 Real Analysis I
  - MATH 5320 Complex Variables
  - MATH 5330 Abstract Algebra I
  - MATH 5365 Topology
  - MATH 5370 Mathematical Modeling I
- Mathematics Electives (18 SCH)
- Synthesized Required Courses (3 SCH)
  - MATH 5191 Mathematics Seminar
  - MATH 5252 Internship in Mathematics
  - MATH 5290 Research Methods in Mathematics



- Synthesized Required Courses (3 SCH)
  - MATH 5191 Mathematics Seminar
  - MATH 5252 Internship in Mathematics
  - MATH 5290 Research Methods in Mathematics

### Mathematics Education Non thesis Plan (Total 36 SCH)

- Required Mathematics Courses (18 SCH)
  - MATH 5305 Real Analysis I
  - MATH 5320 Complex Variables
  - MATH 5330 Abstract Algebra I
  - MATH 5365 Topology
  - MATH 5370 Mathematical Modeling I
  - MATH 5375 Probability Theory
- Required Education Courses (15 SCH)
  - EDCI 5315 Design for Instruction
  - EDDP 5327 Educating Diverse Populations: Teaching Diverse Students
  - EDGR 5320 Foundations of Research
  - EDIT 5322 Technology Applications for Secondary Mathematics and Science Teachers
  - EDME 5310 Problem-Solving Techniques for Secondary Mathematics Teachers
- One Course Chosen from (3 SCH)
  - EDME 5390 Issues in Secondary Mathematics Education
  - EDCI 5399 Special Issues in Curriculum and Instruction: Issues in Mathematics Education

### Special Features of the Program:

- Accommodation for internships
- Specialization can be selected
- Availability of advanced topics and seminar courses
- Preparedness for mathematics research
- Summer course offerings
- Courses are suited for multiple career options
- Student work opportunities available
- Accessible, friendly faculty.

### Why Should You Come Here?

TAMU's campus represents more than a \$200 million investment in new facilities. Our campus is situated in the heart of South Texas along the U.S.-México border in Laredo, Texas, affording immense opportunities for international, comparative and developmental studies. You will study in our new state-of-the-art classrooms and facilities, such as the Lamar Bruni Vergara Science Center.

Our classroom and facilities incorporate the latest trends in evolving Internet and information exchange. On-campus housing facilities are also wired for high speed free Internet. Eighteen

computer labs help assure that you will work in an environment where the student-to-computer ratio is 10 to 1. The TAMU campus is completely wireless, including wireless-enabled printing.

Another essential element in your graduate studies at TAMU is the Sue and Radcliffe Killam Library, the cornerstone of our on-campus support centers. The Library houses more than 196,000 bound volumes and provides access to 1,492 print periodical subscriptions and over 8,000 electronic journals in full text or full image. Over 765,000 microform units and over 70,000 state and federal documents are available to library users.

### Current research includes:

Integral Geometry, Representation Theory, Algebraic Geometry, Group Theory, Number Theory, Mathematical Logic, Partial Differential Equations, Probability Theory and Analysis, Character Theory, Applied Mathematics, Artificial Intelligence, Computer Science, System Engineering, as well as Mathematics and Science Education and Physics.

### Careers:

- Consulting firms
- Government
- Computer Science
- Insurance
- Market Research
- Securities/Stock Exchange
- Education
- Banking
- Retail Management

### How Do I Apply?

- Complete and submit University Graduate Application and submit undergraduate transcripts to the Office of Graduate Studies and Research.
- A Bachelor's degree from an accredited college or university is required.
- All applications can be downloaded from [www.applytexas.org](http://www.applytexas.org)
- Have official GRE test scores sent directly from ETS.
- Write a student narrative describing particular academic and career goals and objectives. Narratives must contain a minimum of 300 words.
- International students must also submit adequate TOEFL scores and financial documentation.
- Review additional program requirements in the Graduate Application.

### Application Deadlines

**Fall and Summer application deadline: April 30**  
**Spring application deadline (domestic): Nov. 30**  
**Spring application deadline (international): Oct. 1.**



**For more detailed information including program costs and courses, please visit or call:**

Website: [www.tamtu.edu/coas/depts/dmps](http://www.tamtu.edu/coas/depts/dmps)

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