MATHEMATICS NON-THESIS (M.S.)

Degree: Master of Science

Major. Mathematics Non-Thesis

Total Hours: 36

The Department of Mathematics offers a program of study leading to a **Master of Science degree in Mathematics**. It is designed to prepare students either for professionally oriented careers in industry or government, for further graduate work in mathematics, or for the depth and breadth necessary for a career in mathematics education.

Prospects for a student with a Master of Science in Mathematics are numerous. Opportunities exist in all areas of applied mathematics including computer science, statistics, operations research, numerical analysis, mathematical physics, administration/management science, engineering, and secondary and elementary school teaching. These represent a sample of the excellent job opportunities available for a student who earns our M.S.

The department invests considerable time advising students in the M.S. program. Once a student is admitted, the advisor will tailor the individual program to meet the new scholar's needs and/or interests. Consequently, a student with a bachelor's degree in mathematics, computer science, engineering, applied sciences, or secondary education will find appropriate opportunities in this M.S. program.

Those seeking admission to this program must satisfy the requirements as indicated below.

Admission to the Program

In order to be admitted to the Graduate Degree Program, a student must have:

- a. Met the general requirements as set forth in this catalog for admission to Lamar's College of Graduate Studies.
- b. Earned a bachelor's degree from an institution approved by a recognized accrediting agency.
- c. Achieved the standards of a minimum GPA of 2.5 in the last sixty hours of undergraduate work and a minimum GRE combined score of 290. Non-native English speakers must have successfully completed the IELTS.
- d. Successfully completed no fewer than 27 semester hours of undergraduate mathematics including courses equivalent or comparable to the following: abstract algebra, analysis, differential equations, linear algebra and statistics, 12 hours of which must be at the junior and/or senior level. Applicants who do not meet this requirement may still be admitted conditionally and be required to make up missing coursework as prescribed by the department. A GPA of 3.0 for assigned deficiency/leveling courses must be maintained and grades below "C" will not be accepted.

Final approval as to what course work is acceptable toward admission to the graduate degree program lies with the graduate advisor and the department chair.

Completion of the Program

In addition to the required courses listed, a student must successfully pass an examination over the course work prepared by the student's graduate committee.

Code	Title	Hours
Required Courses for Major		
Select three of the following:		9
MATH 5310	Real Variables	
MATH 5320	Modern Algebra	
MATH 5340	Topology	
MATH 5312	Complex Variables	
Elective Courses		
Select five MATH courses at the 5000 level		15
Other		
Select four MATH	l courses at the 5000 level	12
Leveling or Deficiency Courses (if required)		
MATH 3322	Intro to Advanced Mathematics	
MATH 3350	Modern Algebra - Groups	
MATH 4325	Analysis I	
Total Hours		36