MATHEMATICS

Degrees: Master of Science
Department: Mathematics and Statistics
Building 38, Room 135A
(850) 474-2276
http://uwf.edu/mathstat/
mathstat@uwf.edu
College: Arts and Sciences

This program offers students who hold the bachelors in mathematics, statistics, or related fields an opportunity to broaden their knowledge in several fields of mathematics, statistics, and their applications. Students may concentrate on statistics which emphasizes the use, adoption, and development of statistical methods and computer technology in the analysis of data from problems in all fields of study. Students may concentrate on mathematics which will prepare them well in seeking careers in teaching in community colleges and high schools; working in science, business, industry, or government; or pursuing doctoral studies in mathematics and statistics.

In addition to general University requirements, students seeking the M.S. in Mathematics must meet the requirements listed below.

Course descriptions are listed alphabetically by prefix in the back of this *Catalog*.

FOUNDATIONAL PROFICIENCIES

MAP	2302	Differential Equations	3
MAS	3105	Linear Algebra	3
STA	3162C	Applied Statistics	4

Choose one:

MAA	4212	Advanced Topics in Multi-Variable Calculus	3
MAD	4401	Numerical Analysis	3

DEGREE REQUIREMENTS

The M.S. is offered with or without a thesis. In addition to general University requirements, students seeking the master's degree are required to maintain at least a 3.0 GPA in all university work undertaken in connection with the degree.

Each student must complete a minimum of 30 semester hours of approved course work. For the degree with thesis, 6 semester hours of 6000-level credit will be awarded for the thesis. For the degree without thesis, a proseminar (1 sh) is required in which the candidate will investigate and make an oral presentation of topics in mathematics or statistics. All candidates will take and pass a comprehensive examination covering the graduate core.

Core Requirements (7-12 sh)

MAS	5107	Matrix Theory	3
STA	5326	Mathematical Statistics II	3

Choose one option:

Mathematics Option

MAT	6930	Proseminar in Mathematics	1
MAT	6971	Thesis	6

Course offered 1-6 sh per semester

Statistics Option

STA	6930	Proseminar in Statistics	1
STA	6971	Thesis	6

Course offered 1-6 sh per semester

Other Requirements (18-24 sh)

Students completing a thesis will take an additional 18 sh of math/stat graduate courses approved by the department while non-thesis students will take an additional 24 sh of math/stat graduate courses approved by the department. A minimum of 15 sh must be at the 6000 level. Only two approved courses below the 5000 level may be included in the graduate program.