Purpose:
To support the curriculum and research goals of faculty and students in the Department of Mathematics & Statistics. The M.S. degree in mathematics is offered either with no concentration, or with one of six possible concentrations (i.e., four of the concentrations being in statistics, one in discrete mathematics, and one in scientific computing).

The concentrations in statistics are programs designed for persons who wish to prepare for careers as professional statisticians in industry, business, or government. These programs provide advanced training in applied statistics for those who are presently working in areas that use statistics, as well as for those who plan to enter these areas. The programs present an balance among the broad range of statistical techniques, mathematical methods, and computation.

The concentration in discrete mathematics and scientific computing are designed to combine mathematics with selected areas of computer science.

The Master of Arts for Teachers (M.A.T.) degree program provides advanced training for secondary school teachers of mathematics. This program combines advanced work in both mathematics and education to deepen, strengthen, and broaden the student's understanding of mathematics and the teaching of mathematics.

General Collection Guidelines:

a. Languages: English is the primary language of the collection.

b. Treatment of Subject: Research and graduate materials are of main focus. Consideration to maintaining a strong undergraduate collection is also encouraged. Biography and general interest material will be selectively purchased. Upper division textbooks will be acquired.

c. Types of Materials: Selection will include monographs and periodicals, encyclopedias, dictionaries, compendia, treatises, proceedings/transactions of conference/congresses/symposia, and data collections. Audio-visual materials as well as CD-ROM products and interactive video will be acquired when needed.

d. Date of Publication: Primarily current imprints will be selected. Some retrospective acquisition of classic or standards works not already in the collection.

e. Types of Materials: Periodicals are of primary importance. Selection will also include monographs, treatises, compendia, and proceedings/transactions of the conferences/congresses/symposia of major societies and associations. Only occasional acquisition of media.
Biostatistics
Bioinformatics
Mathematics Education
Matrix (Analysis, Theory)
Bifurcation Theory
Combinatorics
Graph theory
Computational Algebra/Algebraic Geometry
Computational Statistics
Multivariate/Numerical Analysis
Operator Theory
Inverse and Ill posed Problem Theory
Qualitative Theory of Differential Equations
Probability Theory
Dynamic Systems
Computer Graphics
Real Analysis
Harmonic Analysis
Linear Statistical Analysis
Numerical Approximation
Differential Equations
Numerical Calculus
Applied Multivariate Statistics
Time Series Analysis
Experimental Designs
Computational Methods in Statistics
Analysis of Qualitative Data
Sample Surveys
Numerical Analysis

The following subject areas will also be acquired at collection level:

Linear Algebra  3A
Mathematical Statistics  3A
Calculus  3A

November 2, 2006 / Robert Tomaszewski