MATHEMATICS

The Mathematics major is designed to develop mathematical skills and much more. The study of mathematics will also develop analytical and thinking skills and an appreciation of the contemporary and historical role of mathematics in society. The foundation mathematics major receives enables the student to pursue a number of options upon graduation. Among these are: graduate studies in mathematics or other fields, teacher licensure, career opportunities such as actuarial science, biomathematics, financial mathematics, and others. Students can expect to work closely with the mathematics faculty in small classes and to develop their ability to communicate mathematics both orally and in writing.

REQUIRED MAJOR COURSES **34 Semester Hours**

Required courses:

MAT 141	Probability and Statistics	3
MAT 200	Discrete Mathematics	3
MAT 211, 221, 231	Calculus and Analytic Geometry I, II, III	12
MAT 341	Linear Algebra	3
MAT 351	Differential Equations	3
MAT 361	Modern Algebra	3
MAT 411	Real Analysis	3
MAT 450	Seminar	1

RESTRICTED ELECTIVES **9 Semester Hours**

Select from any 300 or 400-level MAT course, any IT course at the 200 level or higher, any 200-level PHYS course. No more than one IT course may be used to satisfy this requirement, and no more than one PHYS course may be used to satisfy this requirement. Students seeking teacher licensure should take the recommended restricted electives under Teacher Licensure.

TOTAL HOURS REQUIRED **MINIMUM 43 SEMESTER HOURS**

TEACHER LICENSURE IN MATHEMATICS (GRADES 9-12)

Students wishing to earn teacher licensure in mathematics must major in mathematics, taking the following specific courses to meet required competency areas.

Required courses:

MAT 410	Euclidian Geometry	3
MAT 412	Complex Variables	3

Select one course: 3-4

A 300- or 400-level MAT course, a 200-level PHYS course, or a 200-level IT course. Students must also complete the professional studies component of teacher licensure at the high school level listed on page 99 of the Catalog.