**College:** CLAS  
**Department:** Mathematics and Statistics  
**Degree:** B.A./B.S.

**Introduction**  
The mathematical sciences have long provided the necessary languages of the physical sciences, but are now also recognized as important components of study for students in computer science, social sciences, business administration, education, and the biological sciences. Mathematics and statistics are also disciplines in themselves and may be studied purely for the excitement and discovery it brings to those who study it. To meet these needs the department offers an array of courses in pure and applied mathematics and statistics.

Students, prospective students, and all persons having an interest in the department are welcome at the office and are encouraged to visit the Web site. The Web site provides information about the department’s faculty, programs, courses, other services, and its current activities.

**Undergraduate Program Learning Outcomes**  
LO #01: Familiarity with a variety of mathematical objects and systems, including building new systems from given ones and analyzing the results.

LO #02: Ability to use functions to study mathematical systems and their properties.

LO #03: Ability to work from axioms.

LO #04: Proficiency in the use of mathematical logic and language, set theory, and algorithms.

LO #05: Awareness of applicability of mathematics in other disciplines (physics, engineering, etc.).

LO #06: Familiarity with historical social contexts of mathematics.

LO #07: Ability to make connections in mathematics from context to context.

LO #08: Ability to build and use mathematical models of concrete situations or real phenomena.

LO #09: Ability to use data and statistical techniques to solve a problem or make a supportable conclusion.

LO #10: Proficiency in using calculations and computers to do mathematics and solve problems.

LO #11: Awareness of the limitations of technology.

LO #12: Proficiency in oral and written communication of mathematics to peers as well as people with less mathematical background.

LO #13: Ability to work as part of a team to do mathematics.

LO #14: Proficiency as an independent and critical thinker.

LO #15: Ability to use the library and other non-classroom resources to solve a problem in mathematics.
LO #16: Ability to ask the right questions to learn something new or apply something known to a new situation.

LO #17: Enjoyment and appreciation of the beauty of mathematics.

LO #18: Ability to ask questions and be persistent in seeking answers.