## Math 100 - Survey of Mathematics (3)

Catalog Description: Selected topics designed to acquaint nonspecialists with examples of mathematical reasoning. May not be taken for credit after 215 or higher.

Recently used text: Bennett and Briggs, Using and Understanding Mathematics. A quantitative reasoning approach, 6th edition, (Pearson) While instructors might decide to use a different book, quantitative reasoning must be emphasized in the content, and the text should be university level.

Course Objectives and Student Learning Outcomes: The primary goal of Math 100 is to help the students to develop critical thinking and the mathematical skills they will need to succeed in an increasingly complex world. It emphasizes quantitative reasoning to approach problems in a critical and analytic way.

Topics: Among the topics that might be covered in the course are:

1. Logic and the analysis of arguments.
2. Numbers (number systems, graphical and other representations, numbers in the world)
3. Modeling the world mathematically (deterministic and/or probabilistic)
4. Consumer mathematics (money management, time value of money)
5. The mathematics of rational choice (voting systems, fair division)

Instructors have some latitude in the selection of these (and other) topics, as long as the course remains consistent with the catalog description, the course objectives, and the FQ requirements.

Program objectives: Math 100 is a terminal course covering a selection of topics from some major areas of study that make up mathematics. This course does NOT prepare students for Math 140 or any other mathematics course. The course is designed to satisfy the University $\mathrm{FS} / \mathrm{FQ}$ general education requirement.

