

Mathematics 107
Au, Sp

5 cr.

Topics in Mathematics
For Elementary Teachers

**Currently taught in workshop format.*

Prerequisite:

Mathematics 105 and 106.

Catalog Description:

Further topics in mathematics selected by the instructors to broaden the mathematical perspectives of early elementary teachers.

Purpose of Course:

To develop an appreciation of, and basic competency in, the use of analytical thought in the development of a cohesive body of useful mathematical knowledge, with special emphasis on topics encountered in elementary and middle school mathematics programs. Math 107 deals with number theory, combinatorics, probability, early algebra, functions, graphs, sequences and series, and general mathematical skills. *Appropriate for those preparing to become early childhood educators and for those preparing to teach subjects other than math in middle school.*

Text:

Mathematics for Elementary Teachers, and Mathematics for Elementary Teachers: Activities Manual, 2nd Edition, (2008) by Sybilla Beckmann, Addison-Wesley, ISBN for the package is 0321447174

and supplemental materials provided in class.

Topics List:

- I. Number Theory
- II. Combinatorial Counting
- III. Probability
- IV. Functions and Algebra