

Mathematics 106
Wi, Sp

5 credits

Fundamental Mathematics
Concepts for Teachers II

**Currently taught in either lecture/recitation or workshop format.*

Prerequisite:

Mathematics 105 or written permission of the department.

Catalog Description:

Continuation of Math 105. Development of basic ideas of geometry as appropriate for early elementary school 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 106 introduces length, area, volume, angle, Euclidean geometry, congruent and similar triangles, symmetry and rigid motion, and knowledge of general spatial skills. *Appropriate for those preparing to become early childhood educators and for those preparing to teach subjects other than math in middle school.*

Follow-up Course:

Math 107

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

Topics List:

- I. Geometry
- II. Geometry of motion and change
- III. Measurement
- IV. More about Area and volume

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2009-2010