



Catalog Description:

Historical and mathematical discussion of topics in the middle school math curriculum.

Prerequisite:

C- or better in 2167; or credit for 111. Limited to Middle Childhood majors and pre-majors with Math as an Area of Concentration.

Purpose of Course:

The purpose of the course is to prepare prospective middle school math teachers. In particular, it intends to deepen and extend prospective teachers' connections among topics in mathematics through the study of the history of mathematics, as well as continuing to develop their ability to reason with and communicate that knowledge.

Follow-up Courses:

None

Text:

Math through the Ages: A Gentle History for Teachers & Others, Expanded Edition, by Berlinghoff & Bouvea, published by Mathematical Association, ISBN: 9780883857366

Course Packet

Topics List:

1. History of Mathematics, from ancient to modern times.
2. Development of number systems, operations, geometry, trigonometry, algebra, calculus, statistics, and probability.
3. Applications: modeling real-world topics.
4. Problem solving (a theme throughout the course).