MATH 277 Mathematics for Elementary Teachers I

Section Instructor

Louella Aronson
E-mail : louella.aronson@dickinsonstate.edu

Textbook

Title : Mathematics for Elementary Teachers: A Conceptual Approach with Manipulative Kit
Author : Bennett, A. B. and Nelson, L. T.
Publisher : McGraw-Hill
Edition/Year : 10th Ed.
ISBN #: 9780073519579

Additional information : none
Type : Required resource

Other Course Materials

Required : Texas Instrument 30, 34, or 36 Scientific Calculator
Protractor
Optional : Student Solution Manual: The solutions to the odd numbered problems are worked out
step-by-step.

Technology

JavaScript: To access some of the online course materials, your computer must have JavaScript
install and enabled. If you do not have JavaScript on your computer, you can download it free:
http://java.com/en/download/windows_ie.jsp. Contact the Distance Education office if you have
questions about the status of your computer: 1-888-918-5623.

Course Objectives

It is expected that students will be able to :

- Demonstrate an understanding of the mathematical concepts taught at the elementary level
- Communicate to others an understanding of elementary-level mathematics by writing reflections
  on methods of teaching and by explaining strategies and steps used in problem-solving
- Use manipulatives and models to demonstrate and explain the mathematical processes used in
  problem-solving
- Utilize many distinct problem solving strategies
- Demonstrate an understanding of developmental processes in learning mathematics through the
  selection of age-appropriate strategies

Work Expectations

Students are expected to :

- Participate regularly in class
- Submit graded work by dates posted on the course calendar
- Read assigned textbook chapters
- Do ungraded, independent practice exercises
- Submit assigned textbook problems as picture (jpeg) files
- Use manipulatives to complete online math activities
- Complete graded online assignments weekly
- Share your reflections on teaching mathematics using national standards
- Report on experiences working with children in elementary school.

Evaluation

Grading Method : Your final grade is determined by dividing total points earned by total points possible. Points will be awarded for math activities, selected textbook exercises, online math assignments, reflections, quizzes, and written reports. **No tests will be given.**
Grading : Grades will be calculated using the following criteria:

A=90-100%
B=80-89%
C=70-79%
D=60-69%
F= 0-59%