MONROE COUNTY COMMUNITY COLLEGE

MATH 166 Mathematics for Elementary Teachers II

Course Information

Division	Science/Mathematics
Contact Hours	**45**
Total Credits	**3**

Prerequisites MATH 156

Course Description

This course is a study of elementary probability and statistics, geometry, computer and calculator applications. An emphasis is put on the use of manipulatives and problem solving. The purpose of this course is to provide the future elementary school teacher with a perspective for understanding the mathematics taught in the elementary school.

Course Outcomes

In order to evidence success in this course, students will be able to:

1. Identify strategies for computing probabilities and methods of counting.
2. Identify forms for summarizing statistics by way of plots and charts.
3. Identify formulas for computing measures of central tendency and variation.
4. Identify geometric formulas.
5. Identify geometric concepts of two- and three-dimensions.
6. Identify methods of construction.
7. Identify motion geometry.
8. Identify customary and metric measurements.
9. Find the probability of an event in a given experiment.
10. Find measures of central tendency and dispersion given specific data.
11. Identify different types of two- and three-dimensional geometric figures.
12. Find linear, area, and volume measurements.
13. Work with different systems of units and their conversions.
14. Construct geometric figures given a straight-edge and a compass.
15. Use the concepts of congruence and similarity to find dimensions.
16. Graph equations and inequalities on the number line and/or on the Cartesian Coordinate Plane.
17. Use the graphing calculator as it applies to elementary school learning.
18. Use computer software as it applies to elementary school learning.
19. Use the Pythagorean Theorem.

Date Updated: 09/2018
By: K^2CS