



Wayne County Community College District

COURSE SYLLABUS

MAT 129 Math for Elementary Teachers II

CREDIT HOURS: 3.00

CONTACT HOURS: 45.00

COURSE DESCRIPTION:

This course is a continuation of MAT 128 which provides the future elementary teacher with background for understanding mathematics taught in the elementary school. Topics include probability, statistics, geometry, motion geometry, coordinate geometry and concept of measurement.

PREREQUISITES: MAT 128

EXPECTED COMPETENCIES:

Upon successful completion of this course students will exhibit growth in the following areas:

1. Probability
 - 1.1 How probabilities are determined and the role of experimental and theoretical probability
 - 1.2 Geometric probabilities and simulations
2. Data Analysis/Statistics
 - 2.1 Introduction to different types of graphs
 - 2.2 Measurements of central tendency and variation
3. Introductory Geometry
 - 3.1 Three dimensional geometry
4. Constructions, Congruence and Similarity
 - 4.1 Coordinate geometry, slopes and equations of a line
5. Concepts of Measurements
 - 5.1 Area, volume, surface area
 - 5.2 The Pythagorean Theorem
6. Motion Geometry and Tessellations
 - 6.1 Semi-regular tessellations and three dimensional geometry

ASSESSMENT METHODS:

Student performance may be assessed by examination, quizzes, case studies, oral conversation, group discussion, oral presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

GRADING SCALE:

90%-100% = A
80%-89.9% = B
70%-79.9% = C
60%-69.9% = D
<60% = E