COURSE SYLLABUS

MAT0400

4th Grade Math

I. Course Description

Fourth grade math promotes problem solving skills by teaching students how to add, subtract, multiply, divide, average, and write the value of multi-digit numbers. Students learn how to apply mathematical concepts to everyday life using decimals, fractions, estimation, probability, measurement (US and Metric), graphs, word problems involving making change with money, and basic geometry.

II. Prerequisites

None.

III. Materials List

- Microsoft Office or compatible software
- Scissors
- Glue
- Ability to print and scan documents (or take a picture and upload picture of assignment)
- Markers, crayons, or colored pencils
- Blank white paper
- Flash player
- Adobe Reader
- Ability to video yourself or record your voice

IV. Measurable Learning Outcomes

The student will be able to:

A. Describe, understand, and interpret measurement.

B. Collect, interpret, and display data to create and analyze graphs.

C. Solve algebraic equations and expressions, explore and solve number patterns.
D. Add, subtract, simplify, compare, and order fractions with like denominators.

E. Read, write, identify, compare, round decimals to the thousandths.

F. Measure the perimeter and area of a shape.

G. Identify polygons, quadrilaterals, various lines and angles.

H. Add, subtract, multiply, and divide multi-digit whole numbers.

I. Identify the place value of each digit in a whole number through the millions place.

V. Course Requirements and Assignments

1.Individual lesson daily practice/assessments
2. 1 Quiz for most modules
3. 1 Final Assessment per module

VI. Course Grading and Policies

Grading Weights

Lesson Assignments 25%
Quizzes and Written Assignments 35%
Tests 40%

Scale

A 93 – 100
B 85 – 92
C 77 – 84
D 70 – 76
F Below 70
VII. Other Policies

Academic Misconduct

See pages 27-30 of your Student Handbook

Repeating Assignments

Students have two attempts on daily work assignments. Quizzes and tests cannot be repeated to gain a higher grade. Quizzes and tests may be reset for technical issues, but a new set of questions will be generated.

Scope and Sequence:

- Place value
- Standard, Expanded, Word Form
- Comparing numbers
- Multiplication tables practice each week for first 5 modules
- Number lines
- Commutative property of addition
- Addition with regrouping
- Subtraction with borrowing
- Rounding
- Estimation
- Making change
- Graphs
- Multi-digit multiplication
- Basic division
- Division with remainder
- Multi-digit divisor division
- Mean (average), median, mode, range
- Fractions
- Adding and subtracting fractions with like denominators
- Measurement
- Perimeter
- Area
- Line, line segment, ray
- Angles
- Vertices, faces, edges
- Polygons and quadrilaterals
- Reflection, rotation, translation