MA 101 Proficiency Exam

- The test is given on an evening during Freshman Orientation
- It is a two hour timed test with approximately 130 questions
- Calculators are not permitted
- Students scoring 80% or above will receive a waiver for the course through verified competency

Topics Covered

1) Place value
2) Word names for numbers
3) Rounding
4) Estimating
5) Addition, Subtraction, Multiplication, and Division of Whole Numbers
6) Order of Operations
7) Prime numbers
8) Factors & Prime factorization
9) Least Common Multiple
10) Addition, Subtraction, Multiplication, and Division of Fractions
11) Ordering Fractions ; Equivalent Fractions ; Simplifying Fractions
12) Converting Mixed Numbers to Fraction Notation
13) Average, Median, Mode
14) Converting Decimals to Fraction Notation
15) Converting Fractions to Decimal Notation
16) Addition, Subtraction, Multiplication, and Division of Decimals
17) Rate & Unit Pricing
18) Solving Proportions
19) Converting a Decimal to a Percent
20) Converting a Percent to a Decimal
21) Converting a Fraction to a Percent
22) Solving Percent Word Problems
23) Percent Increase/Decrease
24) Tables, Circle Graphs, Line Graphs, Bar Graphs
25) Converting Between Metric Units of Measure
26) Converting Between American Units of Measure
27) Converting Temperature
28) Circles (diameter, radius, area, circumference)
29) Volume (rectangular prism, cylinder, cone, sphere)
30) Solving Equations
31) Triangles (classify by angles or sides, find missing angle measure)
32) Complementary and Supplementary angles