Competencies Comparison

Content that is in MAT 050 but was not in MAT 060 or MAT 090:

* Numeric square roots, “IV. d. Calculate and simplify square roots of real numbers with both rational and irrational solutions (exact and decimal approximations).”
* Specifically, “II. b. Evaluate formulas for given values of the variables, including formulas with integer exponents, fractions, and decimals.” MAT 090 stated to “evaluate formulas for given values of the variables,” but did not include the details.
* III. f. Explain how slope relates to a rate of change in a problem.
* Solving compound inequalities.
* VI. Demonstrate the use of critical thinking skills to problem solve.

b. Create and use graphs, tables, and equations to solve real-world

application problems relating to linear relationships.

c. Identify academic support resources.

d. Engage in appropriate math learning and testing strategies.

e. Effectively use calculators and other appropriate technology.

Content that was in MAT 060 or MAT 090, but is not in MAT 050. Some of these topics were “optional”:

* Review of whole, fraction, mixed, and decimal numbers.
* Integers.
* Using rulers to measure length.
* Solving a formula for a specified variable.
* Factoring trinomials of the form ax^2 + bx + c where a is not equal to one.
* Applying the zero product property to solve quadratic equations.
* Solving quadratic equations by factoring.
* Solving word problems that require quadratic equations.
* Dividing a polynomial by a binomial.
* Graphing linear inequalities in two variables.
* Parallel or perpendicular lines.
* Algebraic fractions.
* Linear systems.

Color Coding for Highlighting in Course Competencies:

In MAT 060 & MAT 050:

Green: content that is virtually identical in both courses

Blue: content that is very similar in both courses

In MAT 090 & MAT 050:

Purple: content that is virtually identical in both courses

Blue: content that is very similar in both courses

In MAT 050:

Green: content that is MAT 060

Purple: content that is MAT 090

Blue: content that is similar to either MAT 060 or MAT 090 but not identical