Technical College Readiness Mathematics

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Course Description: Technical College Readiness Mathematics is designed to meet the needs of students who have passed Algebra I/Coordinate Algebra, have passed or are concurrently enrolled in Geometry/Analytic Geometry while taking this course, and intend to enroll in a technical college program. The course is aimed at students who have experienced difficulty in passing middle school mathematics End of Grade (EOG) assessments, have struggled significantly in the first two high school core mathematics courses, and have scored less than 34 on the ACCUPLACER Placement Assessment. The ACCUPLACER Placement Assessment will serve as the course post-test.

Prerequisite: 3 Math Credits

Instructional Philosophy: The course will provide an opportunity for students to review mathematical skills needed for success in Technical College.

Course Goals:
Upon completion of the course, students will be able to:
- analyze rational numbers using place value and will perform all basic operations using these numbers without the use of a calculator.
- solve equations and inequalities in one variable and then, extend this knowledge to two-variable linear equations and inequalities.
- simplify square roots, rational expressions, and polynomial expressions, and then, solve equations involving these expressions.
- identify and analyze functions using mappings, relations, graphs, and real-world applications.
- convert between measurements within the same systems and from metric to English/English to metric.
- classify basic geometric shapes and then, calculate the perimeters, areas, volumes, and surface areas of figures extending this work into contextual problems.

Grading Scale:
A: 90 & above: outstanding quality of work, on time, almost all problems worked out correctly
B: 80-89: above average quality, on time, some mistakes in worked problems
C: 70-79: average quality, on time, frequent mistakes in worked problems but concepts generally understood

Course Assessment:
Nine Weeks Grade = 60% (Tests) + 40% (Other)
1st Semester Grade = (1st 9 weeks + 2nd 9 weeks) / 2 x 80% + Exam x 20%
2nd Semester Grade = (3rd 9 weeks + 4th 9 weeks) / 2 x 80% + Exam x 20%
Students may exempt the exam BOTH semesters. Refer to the handbook.

Supplies:
- spiral notebook (70 sheets)
- pencils
- earbuds for chromebook/computer