**MATH 30 - ELEMENTARY ALGEBRA**

1. **Course Description**

* Designed to prepare students for intermediate algebra, this course teaches simplifying algebraic expressions involving polynomials and rational terms; factoring; solving linear equations; solving quadratic and rational equations using factoring; analyzing graphs of linear equations; and solving applied problems.

1. **Topics Covered**
   * This topics covered in Math 30 include solving linear equations and inequalities; graphing linear equations using slopes and intercepts; parallel and perpendicular lines; writing equations of lines; solving systems of linear equations by graphing, substitution, and addition methods; operations on polynomials and properties of exponents; Scientific notation; factoring, solving quadratic equations by factoring; operations on rational expressions; solving rational equations.
2. **What to expect?**

* Students will spent 4 hours per week in class for the face-to-face classes. It is expected that students spend about 8 hours outside the class studying and doing homework. Homework could be online, on paper, or combination of both.
* Students whose majors require Statistics can take Math 103+31 after taking this course. Students who are majoring in Business, can take math 115S after taking this course. Students who are majoring in STEM have two options in taking this course: an accelerated 8-week course combined with math 64 or Math 64S, intermediate algebra with supports.
* Students who earn a grade of C or higher in Math 30 will pass this course and can take the next Math class that they need for their major.

1. **Who should enroll?**

This course is the first algebra course that can be taken by any student in any major.

1. **What prior knowledge students need to know to be successful?**

* Arithmetic knowledge of place values, operations on whole numbers, order of operations, addition and multiplication properties, operations on positive and negative numbers, fractions, decimals, and percent.
* Some geometric knowledge including finding perimeters and areas.