MISSOURI WESTERN STATE UNIVERSITY

COLLEGE OF LIBERAL ARTS AND SCIENCES

DEPARTMENT OF COMPUTER SCIENCE, MATHEMATICS, AND PHYSICS

Course Number: MAT 083

Course Name: Foundations for University Mathematics III

Course Description: A continuing study of the fundamental arithmetic and algebraic concepts prerequisite to university level mathematics initiated in <u>MAT 082</u>. The specific topics studied are determined by assessment of the individual student's mathematical background.

Prerequisite(s): A grade of C or better in MAT 082 or the equivalent.

Text: Aleks User's Gde.W/One Term Access Code, Baker, Edition 00, McG, ISBN 9780072391305

COURSE OBJECTIVES:

In general, the objective of this course is to provide the student with a review of elementary arithmetic and to introduce topics from elementary algebra.

- 1. Rational Expressions
- 2. Radicals
- 3. Supplementary

In order to successfully meet the course objectives, students will be able to:

- 1. simplify rational expressions.
- 2. simplify, add subtract, multiply and divide rational expressions.
- 3. simplify complex fractions.
- 4. divide polynomials by long division.
- 5. solve equations containing rational expressions.
- 6. perform operations with rational exponents.
- 7. simplify, add, subtract, multiply, and divide radicals.
- 8. graph quadratic equations.