

# MATH 82X : Expanded Algebraic Foundations

**Credits:** 5

**Class Hours:** 5 lecture

**Prerequisites:** Appropriate math placement.

**Description:** This covers elementary algebra topics. Topics include linear equations and inequalities, graphing, linear systems, properties of exponents, operations on polynomials, factoring, rational and radical expressions and equations, quadratic equations, and applications. Additional topics may include graphing by transformation, introduction to logarithms and functions, and dimensional analysis.

**Semester Offered:** Fall, Spring

**Course Student Learning Outcomes (CSLOs):**

1. Use algebraic techniques to analyze and solve applied problems.
2. Solve equations, inequalities, and systems of equations.
3. Graph linear and quadratic equations.