Course Objectives/Course Outline
Spokane Community College

Course Title: Electronics Math I
Prefix and Course Number: ELECT 113

Course Learning Outcomes:
By the end of this course, a student should be able to:

— Explain fractions, decimals, percent, powers of 10, units, and prefixes
— Solve algebraic equations, simultaneous linear equations, and quadratic equations
— Graph linear equations
— Calculate DC circuit parameters

Course Outline:

I. Course Overview

II. Arithmetic Fundamentals
   A. Decimal Number System
   B. Powers of Ten
   C. Units and Prefixes
   D. Fractions, Decimals and Percent

III. Algebra Fundamentals
   A. Roots and Powers
   B. Fractions and Literal Numbers
   C. Linear and Second Degree Equations
   D. Factoring Algebraic Expressions
   E. Fractional Equations

IV. Math for DC Electronics
   A. Ohms Law
   B. Kirchhoff's Laws
   C. Graphing
   D. Simultaneous Linear Equations