Department:

Engineering Graphics & Technologies

Course Description:

This course covers the basic principles of algebra, including symbols, signs, equations, basic operations, proportions, and formulas. The course will focus on how these principles apply to graphic communications.

Course Competencies:

Upon completion of the course, the student should be able to:

1. Express word statements as algebraic expressions
2. Determine absolute values of signed numbers
3. Perform algebraic operations of addition, subtraction, and multiplication
4. Perform algebraic operation of division, powers, and roots
5. Express word problems as equations
6. Solve equations by using the subtraction, addition, and division principles of equality
7. Solve equations by using the multiplication, root, and power principles of equality
8. Solve equations consisting of combined operations and rearrangement of formulas
9. Write and solve comparisons as ratios
10. Set up and solve direct and inverse proportions

Course Content:

A. Expressing statements as equations
B. Performing algebraic operations
C. Solving equations

Learning Assessments:

Competencies will be assessed by assignments, case problems, quizzes, chapter tests, hands-on projects, lab assignments, midterm test, and final test. The tests can be in the objective format or in a problem solving format.

Instructional Materials:

ISBN: 9781401805173
Guidelines for Requesting Accommodations Based on Documented Disability or Medical Condition

It is the intention of Highland Community College to work toward full compliance with the Americans with Disabilities Act, to make instructional programs accessible to all people, and to provide reasonable accommodations according to the law.

Students should understand that it is their responsibility to self-identify their need(s) for accommodation and that they must provide current, comprehensive diagnosis of a specific disability or medical condition from a qualified professional in order to receive services. Documentation must include specific recommendations for accommodation(s). Documentation should be provided in a timely manner prior to or early in the semester so that the requested accommodation can be considered and, if warranted, arranged.

On-Campus Students: At enrollment, any on campus student may complete a form that will allow them to self-identify any disability.

Off-Campus Regional Students: Self-identify your disability and accommodation needs with the Regional Coordinator and/or instructor, preferably prior to the first class meeting.

Online Students: Self-identify your disability and accommodation needs by contacting the Disabilities Coordinator. Students must provide their own programs to allow accessibility on their home computer.

Any student may also identify their disability by completing an online form located on the HCC homepage under Students Services/Resources/Disabilities. Questions should be directed to the Disabilities Coordinator.