Sinclair Community College
444 E. Third St.
Dayton, OH 45402

Master Syllabus

MAT 1270 - Beginning Algebra

Division: Science, Mathematics and Engineering

Department: Mathematics

Credit Hour Total: 3.0 **Lecture Hrs:** 3.0

Prerequisite(s): DEV 0028OR DEV 0078

Other Prerequisite(s): AND Other with a grade of C or better or satisfactory score on math placement test

Date Revised: April 2015

Course Description:

Brief review of pre-algebra skills; simplifying algebraic expressions; solving first-degree equations and applied problems; introduction to graphing and graphing lines; systems of linear equations in two and three variables and applied problems; first-degree inequalities and applied problems; compound inequalities and set operations; absolute value equations and inequalities; two-variable inequalities and systems of inequalities and applied problems. Traditional testing (proctored or in Testing Center) is used in all online sections.

General Education Outcomes:

- Critical Thinking/Problem Solving Competency

Course Outcomes:

Solve Linear Equations and Inequalities
Demonstrate the ability to solve equations, formulas and applications involving linear equations and inequalities, systems of linear equations and inequalities and absolute value equations and inequalities.

Assessment Method: Locally developed exams
Performance Criteria: Passing Grade with a score of 70% or better on exams

Simplify Expressions
Demonstrate the ability to simplify linear expressions and expressions involving absolute values.

Assessment Method: Locally developed exams
Performance Criteria: Passing Grade with a score of 70% or better on exams

Graph Linear Equations and Inequalities
Demonstrate the ability to graph straight lines, systems of linear equations and inequalities and the solution sets of linear and compound inequalities.

Assessment Method: Locally developed exams
Performance Criteria: Passing Grade with a score of 70% or better on exams

Outline:

Simplify algebraic expressionsSolve linear equations and inequalitiesGraph linear equations in two variablesSolve systems of linear equations in two and three variablesSolve compound inequalitesSolve absolute value equations and inequalitiesSolve systems of linear inequalities graphically and algebraically