

MAT-010: BASIC ALGEBRA 1A

Time Stamp:

Tue Jun 11 2024 14:10:37 GMT-0500 (CDT)

History

a. Mar 8, 2017 by mshepard

Last approved: Wed, 08 Mar 2017 09:05:52 GMT

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Course Type:

Credit

Credit Type:

Remedial

Course Prefix:

MAT

Course Number:

010

Course Capacity:

20

General Education?

No

Department:

Mathematics (MATH)

Division:

School of Business, Mathematics, Engineering and Technologies

Course Title:

Basic Algebra 1A

Effective Date:

Fall 2017

Credit Hours:

Lecture: 0

Lab:

Recitation:

Clinical:

Cooperative:

Studio:

TOTAL: 0

Catalog Credits:

0

Course Fee:

No

Catalog Course Description:

This is an intensive review of topics typically found on the basic algebra placement test. A passing grade satisfies the Basic Algebra requirement.

Catalog Prerequisites:

Appropriate score on a placement test

Crosslisted

No

Textbooks:

Title	Ed	Author(s)	Publisher	ISBN	Req/Rec
Basic Algebra Review L		Bittinger	Pearson		Required

Specialized equipment, supplies, facilities, for classes limited by enrollment or restricted by accreditation and/or equipment limitations:

(Information will be used to determine differential funding category.)

Course Content:**Topics**

Addition, Subtraction, Multiplication and Division of Real Number; Order of Operations
 Substitution in Algebraic Expression (Evaluation)
 Addition, Subtraction, Multiplication and Division of Monomials and Polynomials
 Simplification of Terms containing Integer Exponents
 Factoring. When Factoring Trinomials, Leading Coefficient is Equal to 1
 Solution of Linear Equations and Inequalities in One Variable; Solving Problems involving Percent
 Solution of Linear Equations and Inequalities in One Variable; Solving Problems involving Percent
 Translation of English Phrases into Algebraic Equations and Solving
 The Rectangle (Cartesian) Coordinate System and Graphs of Linear Equations, using a Table of Values

Statement of Course Learning Outcomes:**Learning Outcomes**

Manipulate mathematical operations, such as absolute value and exponentials, and understand and utilize the order of operations and rules of simplification
 Solve linear equations involving one variable and apply methodology to word problems
 Solve systems of linear equations involving two variables and apply methodology to word problems
 Perform proficiently addition, subtraction, and multiplication of polynomials, and division by a monomial
 Factor basic quadratic expressions and equations, and apply methodology to word problems

Statement of Relation to Curriculum(s):

This course is required of all students who do not show proficiency in algebra upon admission to CCM. This course must be completed before any higher-level mathematics course may be taken.

Format for offering the course:**(check all that apply)**

Traditional

Key: 6458