MAT-007: FOUNDATIONS OF ALGEBRA

Time Stamp:
Tue Jun 11 2024 13:55:51 GMT-0500 (CDT)

Approval Path

a. Fri, 21 Apr 2023 16:17:15 GMT
Alexis Thurman (athurman): Approved for MATH Chair
b. Wed, 26 Apr 2023 22:36:06 GMT
Aslihan Cakmak (acakmak): Rollback to Initiator
c. Thu, 02 Nov 2023 16:19:41 GMT
Alexis Thurman (athurman): Approved for MATH Chair
d. Sat, 11 Nov 2023 02:53:44 GMT
Aslihan Cakmak (acakmak): Approved for BMET Dean
e. Wed, 06 Mar 2024 13:12:57 GMT
Christine Kelly (ckelly): Approved for Curriculum Committee Chair
f. Wed, 13 Mar 2024 18:53:30 GMT
Patrick Enright (penright): Approved for VPAA

History

a. Mar 8, 2017 by mshepard
b. May 18, 2021 by magro

Date Submitted: Thu, 27 Apr 2023 15:00:09 GMT

Last approved: Tue, 18 May 2021 08:22:22 GMT

Last edit: Thu, 27 Apr 2023 15:00:08 GMT

Course Type:
Credit

Credit Type:
Remedial

Course Prefix:
MAT

Course Number:
007

Course Capacity:
20

General Education?
No

Department:
Mathematics (MATH)

Division:
School of Business, Mathematics, Engineering and Technologies

Course Title:
Foundations of Algebra

Effective Date:
Spring 2023

Credit Hours:
Lecture: 0
Lab:
Recitation:
Clinical:
Cooperative:
Studio:
TOTAL: 0

Catalog Credits:
0

Course Fee:
No

Catalog Course Description:
This course integrates selected topics of arithmetic and introductory algebra, including operations on whole numbers, fractions, decimals, percent and signed numbers, linear equations and inequalities in one variable, operations on polynomials, factoring, integer exponents, and graphing. Students are required to complete a series of laboratory assignments, which are designed to reinforce concepts based on the placement test results.

Catalog Prerequisites:
Appropriate score on a placement test or High School transcript evaluation (Multiple Measures) for recent graduates - Must be completed prior to taking this course.

Crosslisted
No

Textbooks:

Title	Ed	Author(s)	Publisher	ISBN	Req/Rec
MyFoundationsLab	L		Pearson	9781323074596	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.)

All classes are held in computer labs.

Course Content:

Topics
Arithmetic operations and applications of whole numbers, fractions, decimals and percent
Operations on real numbers and simplifying algebraic expressions
Linear equations and inequalities
Applications and problem solving
Properties of exponents
Operations on polynomials
Introduction to factoring
Graphing linear equations

Statement of Course Learning Outcomes:

Learning Outcomes
Perform arithmetic operations and applications of whole numbers, fractions, decimals and percent
Simplify expressions and apply operations on real numbers
Solve linear equations, linear inequalities, and simple applications
Perform addition, subtraction, multiplication and division of polynomials
Create and interpret graphs for linear equations

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: 3863