

MAT-006: ELEMENTS OF ALGEBRA

Time Stamp:

Tue Jun 11 2024 13:54:39 GMT-0500 (CDT)

Approval Path

- a. Mon, 09 Mar 2020 19:45:21 GMT
magro: Rollback to Initiator
- b. Fri, 21 Apr 2023 16:16:08 GMT
Alexis Thurman (athurman): Approved for MATH Chair
- c. Mon, 01 May 2023 15:06:23 GMT
Aslihan Cakmak (acakmak): Approved for BMET Dean
- d. Tue, 14 Nov 2023 22:29:20 GMT
Christine Kelly (ckelly): Approved for Curriculum Committee Chair
- e. Mon, 27 Nov 2023 12:51:49 GMT
Patrick Enright (penright): Approved for VPAA
- f. Mon, 29 Jan 2024 14:57:28 GMT
Joanne Hugues (jhugues): Approved for College Council Chair
- g. Tue, 30 Jan 2024 15:18:13 GMT
Shew-Mei Chen (schen): Approved for Academic Services (Datatel Entry)

History

- a. Sep 24, 2018 by Erica Lewis (elewis)

New Course Proposal

Date Submitted: Thu, 20 Apr 2023 19:19:11 GMT

Last approved: Mon, 24 Sep 2018 13:35:31 GMT

Last edit: Thu, 20 Apr 2023 19:19:10 GMT

Course Type:

Credit

Credit Type:

Remedial

Course Prefix:

MAT

Course Number:

006

Course Capacity:

20

General Education?

No

Department:

Mathematics (MATH)

Division:

School of Business, Mathematics, Engineering and Technologies

Course Title:

Elements of Algebra

Proposed Effective Date:

Fall 2018

Credit Hours:**Lecture:** 2**Lab:****Recitation:** 1**Clinical:****Cooperative:****Studio:****TOTAL:** 2**Catalog Credits:**

0

Course Fee:

Yes

Catalog Course Description:

Elements of Algebra integrates the fundamental operations of arithmetic and introductory Algebra. It is intended for students whose placement examination indicates a need for a review of arithmetic and basic Algebra skills. Topics include 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. The course incorporates a Support Lab where students will receive personal assistance with problems or questions assigned as homework to supplement the lectures.

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			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 will be held in a computer lab.

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: 10063