MAT-016: INTERMEDIATE ALGEBRA

Time Stamp:
Tue Jun 11 2024 14:08:38 GMT-0500 (CDT)

Approval Path

a. Fri, 21 Apr 2023 16:18:34 GMT
   Alexis Thurman (athurman): Approved for MATH Chair
b. Wed, 26 Apr 2023 22:36:23 GMT
   Aslihan Cakmak (acakmak): Rollback to Initiator
c. Thu, 02 Nov 2023 16:20:58 GMT
   Alexis Thurman (athurman): Approved for MATH Chair
d. Sat, 11 Nov 2023 02:54:38 GMT
   Aslihan Cakmak (acakmak): Approved for BMET Dean
e. Wed, 06 Mar 2024 13:14:16 GMT
   Christine Kelly (ckelly): Approved for Curriculum Committee Chair
f. Wed, 13 Mar 2024 18:54:17 GMT
   Patrick Enright (penright): Approved for VPAA

History

a. May 12, 2018 by mshepard
b. Oct 12, 2018 by magro

Date Submitted: Thu, 27 Apr 2023 15:01:09 GMT

Last approved: Fri, 12 Oct 2018 20:05:09 GMT

Last edit: Thu, 27 Apr 2023 15:01:08 GMT

Course Type:
Credit

Credit Type:
Remedial

Course Prefix:
MAT

Course Number:
016

Course Capacity:
18

General Education?
No

Department:
Mathematics (MATH)

Division:
School of Business, Mathematics, Engineering and Technologies

Course Title:
Intermediate Algebra

Effective Date:
Spring 2023

Credit Hours:
Lecture: 3
Lab:
Recitation:
Clinical:
Cooperative:
Studio:
TOTAL: 3

Catalog Credits:
0

Course Fee:
No

Catalog Course Description:
A second-level preparatory algebra course designed to prepare students for credit-level mathematics courses. Covered are selected topics, including systems of linear equations, polynomials, factoring, rational expressions, radicals and solving quadratic equations.

Catalog Prerequisites:
MAT-006, MAT-007 MAT-010 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
MyMathLab	L	Lial	Pearson	9781256894339	Required
Workbook for MATH 016 w/ MML	1st	Lial	Pearson	9781256668303	Recommended

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
Review of Foundations of Algebra Topics
Graphing equations, slope, equations of lines
Systems of equations, applications
Factoring, solving equations by factoring
Simplifying multiplication and division of rational expressions
Addition and subtraction of rational expressions
Simplifying complex fractions
Rational equations, applications
Radicals, simplifying radical expressions (square roots only)
Operations on radicals, radical equations (square roots only)
Solving quadratic equations with real roots by quadratic formula

Statement of Course Learning Outcomes:

Learning Outcomes
Solve simple linear equations, systems of equations, quadratic equations, rational equations and radical equations
Create and interpret graphs of linear equations, and write equations for lines.
Perform addition, subtraction, multiplication, and division of rational and radical expressions
Simplify complex fractions and radical expressions

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
Hybrid-Main Campus

Key: 3871