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Co-Req support for AB 1705 Compliance

Course

- MATH-81: Support for Mathematical Concepts
- MATH-87: Support for 70

Total Contact Hours

54

Total Student Hours

63

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Is this course offered through Distance Education?

Yes

Online Delivery Methods

DE Modalities	Permanent or Emergency Only?
Entirely Online	Permanent
Hybrid	Permanent
Online with Proctored Exams	Permanent

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Student Learning Outcomes

	Upon satisfactory completion of the course, students will be able to:
1.	Graph functions.
2.	Solve equations.
3.	Simplify expressions.

Course Objectives

	Upon satisfactory completion of the course, students will be able to:
1.	Solve polynomial, rational, absolute value, radical, exponential and logarithmic equations;
2.	Solve systems of linear equations;
3.	Graph linear and nonlinear functions;
4.	Perform algebraic operations with functions, including function composition;
5.	Find inverse functions;
6.	Use mathematical modeling to solve problems relating to exponential growth, and decay, mixing, and optimization;
7.	Use function notation and evaluate domain and range for all functions types studied;
8.	Simplify difference quotients involving polynomial, rational, and radical functions; and
9.	Study for a math class effectively.

Course Content

Using a just-in-time approach, the following content will be covered as required for success in the corequisite Applied Calculus course.

1. Linear equations and inequalities
 - a. Linear functions (finding and graphing)
 - b. Graphing linear inequalities
2. Graphing linear equations
 - a. Equations in two variables
 - b. Slope and graphing
 - c. Using slope-intercept and point-slope formulas
 - d. Horizontal and vertical lines
 - e. Parallel and perpendicular lines
3. Systems of equations

Group Work

Group work

Individualized Instruction

Individualized instruction to fill gaps

Other

Practice Problems

Instructor-Initiated Online Contact Types

AMS01i

Edition/Version

12th

Publisher

Pearson

Year

2020

Rationale

This is a standard Applied Calculus book.

ISBN #

9780136880257

Do you wish to propose this course for a Local General Education Area?

No

No

Do you wish to propose this course for a CSU General Education Area?

No

Do you wish to propose this course for a UC Transferable Course Agreement (UC-TCA)?

No

Do you wish to propose this course for a UC Transferable Course Agreement (UC-TCA)?

Allow Pass/No Pass

Yes

Only Pass/No Pass

No