



South Central College

MATH 120 College Algebra

Common Course Outline

Course Information

Description College algebra studies functions and their applications. This course focuses on linear functions, quadratic functions, polynomial and rational functions, exponential and logarithmic functions, and related equations, inequalities, and graphs. Additional topics include inverse functions, systems of equations and inequalities, matrices, sequences and series, and the Binomial Theorem. Math 120 satisfies the MNTC Category 4 Mathematical/Logical Reasoning requirement.

Total Credits 4

Total Hours 64

Types of Instruction

Instruction Type

Lecture

Credits/Hours

4/64

Pre/Corequisites

At least one of the following conditions must be met for enrollment in Math 120:

Corequisite enrollment in Math 0098

Completion of Math 0085 with a grade of C or higher

Completion of Math 0095 with a grade of C or higher

Accuplacer score 56+ Arithmetic AND 76+ in Elementary Algebra AND 50+ in College Math

Next Gen Accuplacer score 250-300 AAF

ACT Math score 22-36

MCA score 1158-1164

Institutional Core Competencies

Critical and Creative Thinking - Students will be able to demonstrate purposeful thinking with the goal of using a creative process for developing and building upon ideas and/or the goal of using a critical process for the analyzing and evaluating of ideas.

Distinguish between an arithmetic sequence and a geometric sequence
Compute the sum of an arithmetic series
Compute the sum of a geometric series
Utilize sigma notation to work with series
Solve application problems involving sequences and series

16. Apply the Binomial Theorem

Learning Objectives

Apply the Multiplication Principle for counting
Apply permutations to counting arguments
Apply combinations to counting arguments
Compute Binomial Coefficients
Expand a binomial to the nth power

SCC Accessibility Statement

Disability Services provides accommodations and other supports to students with permanent and temporary disabilities that affect their SCC experience. Disabilities may include mental health (anxiety, depression, PTSD), ADHD, learning disabilities, chronic health conditions (migraine, fibromyalgia), sensory disabilities, and temporary disabilities (broken arm, surgery). Common accommodations are extended test time, private room for testing, audiobooks, and sign language interpreter.

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