MATH G055N: GRAPHS AND LINES

Item	Value
Curriculum Committee Approval Date	03/04/2025
Top Code	170200 - Mathematics Skills
Units	0 Total Units
Hours	6-10 Total Hours (Lecture Hours 0; Lab Hours 6-10)
Total Outside of Class Hours	0
Course Credit Status	Noncredit: Support Course (U)
Material Fee	No
Basic Skills	Basic Skills (B)
Repeatable	Yes; Repeat Limit 99
Open Entry/Open Exit	Yes
Grading Policy	P/NP/SP Non-Credit (D)

Course Description

This noncredit course introduces the basic concepts of graphs and lines and is designed to provide complementary support for college-level mathematics courses. COREQUISITE: MATH G100, MATH G103, MATH G104, MATH G115, MATH G115S, MATH G120, MATH G140, MATH G140S, MATH G170, MATH G180, MATH G185, MATH G280, MATH G285, MATH G287, STAT C1000, STAT C1000E, PSYC G140, SOC G125, or ECON G160. Open Entry/Open Exit. NOT DEGREE APPLICABLE. Not transferable.

Course Level Student Learning Outcome(s)

1. Course Outcomes
2. Write the equation of a line in slope intercept form given the slope and an ordered pair.

Course Objectives

- 1. Determine the slope and y-intercept of a line.
- 2. Graph a linear equation.

Lecture Content

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Lab Content

Representations of Linear Equations Write an equation in slope-intercept form Write an equation in point-slope form Graphing Linear Equations Given slope and y-intercept Given slope and ordered pair solution Given two or more ordered pair solutions

Method(s) of Instruction

- Enhanced NC Lab (NC2)
- Online Enhanced NC Lab (NC6)

Reading Assignments

Textbook and instructor handouts.

Writing Assignments

Writing up solution methods to course concept problems within assignments and course assessments.

Out-of-class Assignments

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Demonstration of Critical Thinking

Students will demonstrate critical thinking and problem-solving skills by solving, analyzing, and interpreting graphs and lines. Such as giving two ordered pair solutions, deducing the slope of the line, and then deducing the linear equation. Demonstrations will be shown by completing assignments, participating in discussions, and completing required assessments.

Required Writing, Problem Solving, Skills Demonstration

Students will demonstrate their problem-solving skills through completing assignments and course assessments by showing their step-by-step processes to solving problems from start to finish.

Textbooks Resources

1. Required Marececk,L, Anthony Smith,M, Mathis, A. Elementary Algebra, 2nd ed. Open Stax (OER), 2024