MATH G050N: SETS OF NUMBERS

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 number sets 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. Determine which number set(s) a given number is an element of.

Course Objectives

- 1. Classify a given number set.
- 2. Evaluate basic operations including adding, subtracting, multiplying, and dividing positive and negative numbers.

Lecture Content

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Lab Content

Number Systems Natural numbers Whole numbers Integers Rational numbers Irrational numbers Real numbers Complex numbers Prime numbers Composite numbers Subsets Classification of a number and which set(s) it belongs Numeric Operations Addition Subtraction Multiplication Division

Method(s) of Instruction

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

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 numerical expressions. Such as given a numerical value, deducing all number sets it is an element of. Demonstrations will be shown by completing assignments, assessments, and participating in discussions.

Required Writing, Problem Solving, Skills Demonstration

Students will demonstrate their problem-solving skills through the completion of course assignments and assessments by showing their step-by-step processes for solving problems from start to finish

Eligible Disciplines

Mathematics: Master's degree in mathematics or applied mathematics OR bachelor's degree in either of the above AND master's degree in statistics, physics, or mathematics education OR the equivalent. Master's degree required.

Textbooks Resources

1. Required Kirk, Donna. Contemporary Mathematics, ed. Open Stax (OER), 2024