



# Welcome to Discrete Math for Computer Science

**Russell Dorrell, Room 238  
Northern Guilford High School**

## Course Overview 2024-25

### NGHS Vision

Northern Guilford High School will equip and prepare all graduates with a career plan, apprenticeship, enlistment agreement, or acceptance letter to a post-secondary school.

### NGHS Mission

Northern Guilford High School empowers lifelong learners who exhibit wisdom, hope, and integrity.

### Welcome to the 2024-25 school year at Northern Guilford High School!

Welcome to Discrete Math for Computer Science class. The primary focus of this course is to introduce discrete structures that are the backbone of computer science.

**Email:** [dorrellr@gcsnc.com](mailto:dorrellr@gcsnc.com)

**School Phone:** (336) 643-8449 extension 489674

**Remind:** text @do24dm4cs to 81010

**Webpage:** <https://www.gcsnc.com/Page/10313>

**Canvas:** Announcements, daily assignment links, discussions will be posted on the class CANVAS Page as soon as possible.

### Course Description

The mathematics of modern computer science is built almost entirely on discrete mathematics, such as logic, combinatorics, proof, and graph theory. At most universities, an undergraduate-level course in discrete mathematics is required for students who plan to pursue careers as computer programmers, software engineers, data scientists, security analysts and financial analysts. Students will be prepared for college level algebra, statistics, and discrete mathematics courses.

The course is divided into the following:

UNIT 1: Matrix Operations	UNIT 2: Logic
UNIT 3: Set Theory	Unit 4: Number Theory
UNIT 5: Recursion	Unit 6: Graph Theory
UNIT 7: Combinatorics	

### Grading Policy

Tests/Projects: 50%  
Quizzes: 30%  
Homework/  
Classwork: 20%

### Grading Scale

A 90-100%  
B 80-89%  
C 70-79%  
D 60-69%  
F Below 60%

### Makeup Work Policy

Students are expected to make up work assigned during the absence(s) within three school days of the student's return to school. After 3 school days, if not turned in, it becomes late work. The ultimate responsibility for make-up work lies with the student.

### Late Work Policy

Students may turn in **completed** homework assignments **up to** five school days after the due date with a 10-point penalty per day. **After five school days, the work will not be accepted.** All classwork is to be **completed** and **turned in** at the **end of class**.

### Extra Help

Times arranged by appointment, but I am generally in my room before school. Extra help sessions will be weekly Wednesday and Friday 8:15 - 9:05 am. **\*\*Teacher may also require student to attend for makeup or late work.**

### Materials Required Daily

- Composition Notebook (Interactive Student Notebook)
- Writing device.
- Charged GCS Chromebook and charger
- Graphing Calculator (TI-84+ preferred)

*"Sometimes the best thing you can do is not think, not wonder, not imagine, not obsess. Just breathe, and have faith that everything will work out for the best." - Unknown*