THE GEORGE WASHINGTON UNIVERSITY
WASHINGTON, DC

CS 1311: Discrete Structures I

Prof. Vishesh Patel

Introduction

GW SCHOOL OF ENGINEERING & APPLIED SCIENCE

Course Information

- **Lectures:** Tuesdays and Thursdays: 3:45 - 5:00 pm in DUQUES 151
- **Discussion Sections (Labs)**
  - Attendance required, attend one you registered for, with exceptions for conflicts
- **Piazza for Questions:** https://piazza.com/gwu/spring2025/csci1311
- **Gradescope:** Homework Submission, Grading, etc.
- **Course Website:** https://gw-cs1311.github.io/

Course Content

- **Prerequisites:** MATH 1220 or MATH 1231
- **Optional Textbooks:**
  - ''Mathematics: A Discrete Introduction'' by E. A. Scheinerman
  - "Discrete Mathematics with Applications" by Susanna Epp
- Non-comprehensive list: Logic, Sets, Proofs, Induction, Counting, Probability, Functions, Graphs

Instructor

- **Vishesh Patel**
  - Graduated from University of Pennsylvania (B.S and M.S.E)
  - Interest in Algorithms and Randomization (PhD?)
  - Largely software background (Finance and Technology)
  - Teach CS 1311 in the Fall, CS 2312 in the Spring
- **Vish**
  - Play sports (basketball, tennis, volleyball, etc.)
  - Watch sports (76ers, Rams, Phillies)
  - Play games (poker, Catan, Codenames, etc.)
  - Explore the DC food scene

Course Schedule

- Lectures every Tuesday and Thursday
- Office Hours after class every Tuesday and Thursday
- Homework due before class on Tuesday
- Homework released after class on Tuesday

- **Schedule will be continually updated at** https://gw-cs1311.github.io/

TA Staff

Learning Assistants:

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Grading

- **Approximate Grading**
  - 5%: Participation (Lectures, Labs, Office Hours, Piazza)
  - 15%: Midterm #1
  - 15%: Midterm #2
  - 30%: Final
  - 35%: Homework

- *Disclaimer:* This is a challenging course, especially to those who are seeing the content for the first time. If you try hard to understand the material, put in the effort/time, and illustrate that you are doing so, you will be *fine.*

Collaboration Policy

- For homeworks, you are allowed to discuss homework problems with **1** other person and this should be noted at the top of every homework submission
- But, you should write your solution to the HWs **independently**
- Under **no circumstances** may you look at another student's HWs, or look for HW answers anywhere other than in the text and in the notes and handouts provided in class or links provided on the course website.
- Don't give out answers on Piazza
- Academic Integrity + AI

Roadmap to Success

1. **Come to Class** (preferably wanting to learn and participate)
2. **"Recreate the Class" to a friend** (don't memorize the lecture, but the narrative)
3. **Go to Lab Sections** (try to understand how to do problems)
4. **Do the Homework On Your Own (**at least try the problems by yourself before talking about them with your collaboration partner**)**
5. **Writeup the Homework Solutions On Your Own** (you don't have a choice with this one, if you don't……)
6. **Office Hours** (if you're stuck on a homework problem, or a concept, or just want to chat)