

Math 574 Honors: Discrete Mathematics, Fall 2022

Instructor: Ruth Luo; ruthluo@sc.edu

Office Hours: TBA (and by appointment)

Course Website: Blackboard

Lecture: MWF 9:40-10:30am, Gambrell 205

Credit Hours: 3

Catalog Description: Counting, discrete probability, relations, trees and graphs.

Textbook: *Discrete Mathematics and its Applications*, 7th, by Kenneth H. Rosen, published by McGraw-Hill Inc, 2012. *It is optional to purchase the textbook.*

Graded Components:

- **Homework:** There will be 12 written homeworks, assigned (roughly) weekly. *A subset of the questions will be graded for correctness and the rest will be graded for completeness.* You may drop your two lowest homeworks (this is to account for illness, emergencies, travel, etc.).
- **Quizzes:** There will be five 30 minute quizzes every 2-3 weeks in class. You may also submit quiz corrections for partial credit. You may drop your lowest quiz.
- **Midterms:** There will be two 50 minute midterms in class. Tentatively, the midterms will be scheduled for **Wednesday 10/12/22 and Monday 11/21/22**.
- **Final:** There will be one 150 minute final exam. Tentatively, the exam is scheduled for **Wednesday 12/7/22** at 9:00am (location TBA).

All quizzes, midterms, and final are *closed note*. You may use your lecture notes and textbook while completing your homework. You may also work on the homework with other students in the class, but every student must independently write their solutions.

Grade Breakdown:

- 40% - Homeworks (12 total, drop 2 lowest, best 10 worth 4% each)
- 20% - Quizzes (5 total, drop 1 lowest, best 4 worth 5% each)
- 20% - Midterms (2 total, worth 10% each)
- 20% - Final Exam

Your final grade will be assigned using the following scheme:

[100, 90] A; (90, 86] B+; (86, 80] B; (80, 76] C+;
(76, 70] C; (70, 66] D+; (66, 60] D; (60, 0] F

In addition, there may be an added curve depending on the distribution of scores at the end of the semester.

Academic Integrity: The use of solution manuals, online homework help sites such as Chegg, etc. are forbidden. Any suspicious behavior will be reported to the academic integrity office.

See https://sc.edu/about/offices_and_divisions/student_conduct_and_academic_integrity/ for more information.

Attendance policy: As per university policy, absence from more than 10 percent of the scheduled class sessions, whether excused or unexcused, is excessive and the instructor may choose to exact a grade penalty for such absences. As such, attendance is **required**. Please contact me in advance if you have a valid reason for absence.

Americans with Disabilities Act: Contact the Office of Students Disability Services if you require special accommodations. You should contact them as early as possible as it may take time to set up the needed accommodations.