

General information

Meeting time: See timetable below
Zoom link: <https://uncw.zoom.us/j/4431540024>
Office Hours: Please email me to set up an appointment. Please include availability in the email and I will reply with a Zoom invitation at one of the available times.
Classroom: <https://uncw.zoom.us/j/4431540024>
Professor: UNCW: Dr. Johan Hattingh; CUAS: Dr. Yu Wang
Email: hattinghj@uncw.edu; wangyu103x@163.com
Text: Logic and Discrete Mathematics: A Concise Introduction by Conradie and Goranko First Edition Wiley 2015 ISBN-10: 111875172; ISBN-13: 078-1118751275

Course Description: Techniques for counting configurations of objects. Recurrence relations; principle of inclusion-exclusion; graphs, trees, and circuits. Additional topics chosen from Polya's Theorem, generating functions, and network flows.

Student Learning Outcomes: Upon successful completion of MAT 375, students will be able to:

- read, write and speak lucidly about mathematical ideas using correct mathematical notation;
- read and write mathematical proofs of basic combinatorics results;
- apply combinatorial reasoning to solve problems.

Assessment Evaluation

30% in daily performance; 20% in midterm examination and 50% in final examination.

Table 1: Class Schedule

Weeks	Starting on	Monday	Tuesday	Wednesday	Thursday	Friday
Week 1	2026/03/02	8:10–9:50 am				
Week 2	2026/03/09	8:10–9:50 am				
Week 3	2026/03/16	8:10–9:50 am				
Week 4	2026/03/23	8:10–9:50 am				
Week 5	2026/03/30	8:10–9:50 am				
Week 6	2026/04/06	Qing Ming Festival				
Week 7	2026/04/13	8:10–9:50 am				
Week 8	2026/04/20	8:10–9:50 am				
Week 9	2026/04/27	8:10–9:50 am				
Week 10	2026/05/04	Labor Day				
Week 11	2026/05/11	8:10–9:50 am	4:20–6:00 pm	2:30–4:10 pm	10:20 am–12:00 am	
Week 12	2026/05/18	8:10–9:50 am	4:20–6:00 pm	2:30–4:10 pm	10:20 am–12:00 am	
Week 13	2026/05/25	8:10–9:50 am	4:20–6:00 pm	2:30–4:10 pm	10:20 am–12:00 am	
Week 14	2026/06/01	8:10–9:50 am	4:20–6:00 pm	2:30–4:10 pm	10:20 am–12:00 am	
Week 15	2026/06/08	8:10–9:50 am	4:20–6:00 pm	2:30–4:10 pm	10:20 am–12:00 am	
Week 16	2026/06/15	8:10–9:50 am	4:20–6:00 pm	2:30–4:10 pm	10:20 am–12:00 am	
Week 17	2026/06/22					
Week 18	2026/06/29					
Week 19	2026/07/06					

This course syllabus provides a general plan for the course; deviations may be necessary.