

MATH 2200-2, 8:35 - 9:25 MWF IN LCB 215

Instructor: Gordan Savin. Office: LCB 205. Office hours: MWF, 9:30 - 10:30, or by appointment.

<http://www.math.utah.edu/~savin>

Enrollment Requirement: Prerequisites: C or better in one of Math 1220, 1250, 1260, 1270, 1311, 1320, 1321, 2210, or AP Calc BC score of 5.

Textbook: *Discrete Mathematics and its Applications* by K. H. Rosen, 7th Edition, ISBN 9780073383095.

Goal: This is a course on the fundamentals of discrete mathematics. It includes an introduction to proofs and rigorous analytic thinking; students will learn how to understand and write short proofs. We will introduce basic elements of mathematics such as fundamentals of logic, sets and relations, functions, number theory, modular arithmetic, combinatorics, and discrete probability. Math 2200 provides a good foundation for higher mathematics or computer science courses. We expect to cover most of the topics in Chapters 1-7 of the book.

Exams: Three in class exams, on every fourth Wednesday, not counting the fall break week: 09/13, 10/18, 11/15. A sample exam will be posted on my web page by preceding Friday, and there will be a review on Monday. The final exam: Monday, December 11, 8:00 - 10:00 in LCB 215. You must be able to take the final exam at this time. All exams are closed book, calculators are not allowed. There are no make-up exams, though the final exam score may replace a mid-term missed due to personal or family emergencies.

Homework: There is a HW assignment due every Monday, except following the exam weeks and the Thanksgiving holiday. Unstapled homework will not be accepted. The HW is a selection of problems from the book, posted on my web page and updated as we progress throughout the week. I will also provide partial solutions to HW problems on my web page.

Grade: The grade will be based on three components: Homework 15%, three in-class exams 20%, each, and the final exam 25%. Approximate grade scale: A (93-100), A- (90-92), B+ (87-89), B (83-86), B- (80-82), C+ (77-79), C (73-76), C- (70-72), D+ (67-69), D (63-66), D- (60-62), E (0-59).

Tutoring: For details see www.math.utah.edu/ugrad/mathcenter.html

Accommodation: The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in the class, reasonable prior notice needs to be given to the Center for Disability Services (CDS), 162 Olpin Union Building, 581- 5020 (V/TDD). CDS will work with you and me to make arrangements for accommodations. All information in this course can be made available in alternative format with prior notification to CDS.

Student Code: All students are expected to maintain professional behavior in the classroom setting, according to the Student Code, spelled out in the Student Handbook. You

have specific rights in the classroom as detailed in Article III of the Code. The Code also specifies proscribed conduct (Article XI) that involves cheating on tests, collusion, fraud, theft, etc. Students should read the Code carefully and know you are responsible for the content. According to Faculty Rules and Regulations, it is the faculty responsibility to enforce responsible classroom behaviors, beginning with verbal warnings and progressing to dismissal from class and a failing grade. Students have the right to appeal such action to the Student Behavior Committee.

<http://regulations.utah.edu/academics/6-400.php>