SYLLABUS – MATH 2200

DISCRETE MATHEMATICS

Description: 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.

- **Time:** Monday, Wednesday, Friday 9:40–10:30am.
- **Location:** JTB 120
- **Instructor:** Karl Schwede
- **Contact information:**
  - email: schwede@math.utah.edu
  - office: JWB 323
  - website: `http://www.math.utah.edu/~schwede/math2200`
- **Office hours:** Wednesday 1-2, Thursday 11:30-12:30.
- **Textbooks:**

  Discrete Mathematics and its Applications by K. H. Rosen, 7th Edition

Grade: Your grade will be determined by the following formula.

35% Homework, in class worksheets, and quizzes. Homework will be approximately weekly. Quizzes will once every 1 or 2 weeks.

15% Midterm #1. Tentatively February 16th.

20% Midterm #2. Tentatively April 6th.

30% Final. Scheduled as per University guidelines.

Generally speaking, late homework will not be accepted. In unavoidable circumstances, you must speak with the instructor *prior* to missing the homework in order to receive credit. In such situations, the impact on the grade will be dealt with on a case by case basis.

Students are allowed, and even encouraged to work together when solving homework problems (although each student is responsible for their own write-up).

Prerequisites: Prerequisites: "C" or better in Math (1220, 1250, 1260, 1270, 1311, 1320, 1321, or 2210) or an AP Calc BC score of 5.

Academic Integrity: All University of Utah policies regarding ethics and honorable behavior apply to this course.

Disabilities: The Americans with Disabilities Act requires that reasonable accommodations be provided to qualified individuals. To discuss any such accommodations, please contact me as well as the Center for Disability Services, (801) 581-5020, at the beginning of the semester.