MATH 2200-001, Discrete Math, Spring 2020

Class Meetings: MWF, 09:40AM-10:30AM, JTB 120
Instructor: Lei Wu
Email: lwu@math.utah.edu
Office Hours: M 10:30AM-11:30AM, W10:30AM-11:30AM and F 10:30AM-11:30AM in JWB 130, or by appointment.

Course 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.

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


Homework: There will be weekly homework, due in class. Students may discuss the problems with others, but it is important to write up one’s own solutions. The lowest homework score will be dropped. Assignments, on the date due, should be handed in either before or immediately after class; late homework will typically not be accepted.

Webpage: All information concerning this class will be posted on the Canvas webpage of the class. Any important information will be given in class and on the Canvas webpage. You are responsible for checking the webpage on a regular basis.

Attendance: Like any college course, attendance is not mandatory. Please note however, that concepts will be thoroughly explained and reviewed in class. Students who regularly attend score on average 30% higher on exams than those who do not.

Exams: There will be two midterm exams throughout the semester, and a final exam. The exams are closed-book, with no calculators; there are no make-up exams.

- Exam 1: Friday, Feb. 14, 09:40AM-10:30AM (in class)
- Exam 2: Friday, Mar. 20, 09:40AM-10:30AM (in class)
- Final: Friday, April 24, 08:00AM-10:00AM at JTB 120

Grading: The grades will be determined using the following weights:

- Homework: 15%
- Exam 1 and 2: 25%×2
- Final: 35%
- Note: no scores will be dropped.

Grading Scale: Semester letter grades will be converted from numerical semester scores (N) as follows:

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\begin{align*}
100 & \geq N \geq 93 : A \\
93 & > N \geq 90 : A- \\
90 & > N \geq 88 : B+ \\
88 & > N \geq 83 : B \\
83 & > N \geq 80 : B- \\
80 & > N \geq 78 : C+ \\
78 & > N \geq 73 : C \\
73 & > N \geq 70 : C- \\
70 & > N \geq 68 : D+ \\
68 & > N \geq 63 : D \\
63 & > N \geq 60 : D- \\
60 & > N : E
\end{align*}
\]
Tutoring: Free Math tutoring is available in Room 155 of the Benny Rushing Mathematics Center, adjacent to LCB and JWB.

ADA Statement: 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 and Access, 162 Olpin Union Building, 581-5020 (V/TDD). CDA will work with you and the instructor to make arrangements for accommodations. All information in this course can be made available in alternative format with prior notification to the Center for Disability and Access.

Disclaimer: If I do any modification to this syllabus, I will let you know in class and update the webpage.