Math 231 Syllabus

Lecturer: Eric Merchant
Office: 198B Anstett
Email: ericm@uoregon.edu

Office Hours: M,W: 10:00-11:00

TA: Gautam Webb
Office: 108C Deady
Email: gwebb@uoregon.edu

Office Hours: Tu: 1:00-3:00
Th: 2:00-4:00

Text: *Discrete and Combinatorial Mathematics*, 5th edition, by Grimaldi. We will cover chapters 1-4, and some of 10.

Course Goals: Students will learn the essential mathematic concepts and ideas in discrete mathematics, which are required for rigorous studies in most areas of computer science. After completing this course satisfactorily, a student will:
- Be able to construct simple mathematical proofs and verify them.
- Understand logical arguments and logical constructs.
- Have a better understanding of sets, functions, and relations.
- Possess the ability to describe computer programs mathematically

Homework (15% of final grade): Homework will be collected every Thursday in 108C Deady at 3pm, except for week 6 and 9.

Worksheets (5% of final grade): A worksheet will be given during discussion sections weeks 1, 3, 5, 6 and 8. Working in groups is encouraged, but everyone must do their own work. Grades will given according to effort, not correct answers.

Quizzes (20% of final grade): A quiz will be given in discussion weeks 2, 4, 7 and 10.

Midterms (25% of final grade): The midterm will be on Monday 10/29 during the regular lecture period. It will cover chapters 1, 2 and 3.

Final (35% of final grade): 10:15 Friday 12/7

Cell Phones: If I hear your cell phone or see you touch it during class, I will deduct points from your next quiz score.

Calculators: Calculators are prohibited on all exams and quizzes.

Clickers: Clickers should be brought to every lecture (but not discussion sections). For now, clicker questions are not graded or used for attendance, but I reserve the right to change that policy if needed.
Assignments

**Week 1:** 1.1 & 1.2 #4, 6, 9, 10, 20, 22, 26, 28, 29, 36 and Canvas Problems

**Week 2:** 1.3 #6, 14, 16, 17, 18, 20, 21, 22, 23, 30 and Canvas Problems

**Week 3:** 1.4 #8, 10, 15
1.5 #1, 6, 7, 8
2.1 #8, 9, 12 and Canvas Problems

**Week 4:** 2.2 #3, 6, 16
2.4 #4, 8, 12
2.5 #6, 8, 14, 18 and Canvas Problems

**Week 5:** 3.1 #6, 8, 12, 18, 20, 22
3.2 #4, 6, 7, 8 and Canvas Problems

**Week 7:** 4.1 #2, 4, 6, 8, 10, 12, 14, 16
4.2 #1, 10, 12, 13, 18 and Canvas Problems

**Week 8:** 4.3 #4, 6, 10, 16, 22
4.4 #2, 4, 6, 14, 16 and Canvas Problems

**Week 10:** 4.5 #2, 6, 8, 12, 18
10.1 #1,2,3
10.2 #1(abd), 4, 5, 6, 7, 12, 13, 20, 24, 26 and Canvas Problems