

Math 231 Syllabus

Lecturer: Eric Merchant

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

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Th: 11:00-1:00

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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 311 Fenton at noon, 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 10/30 during the regular lecture period. It will cover chapters 1, 2 and 3.

Final (35% of final grade): 10:15 Thursday 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

Due 9/28: 1.1 & 1.2 #4, 6, 9, 10, 13, 20, 22, 26, 28, 29, 36, 38.

Due 10/5: 1.3 #4, 5, 6, 14, 16, 17, 18, 20, 21, 22, 23, 30

Due 10/12: 1.4 #8, 10, 15, 18

1.5 #1, 6, 7, 8

2.1 #4, 8, 9, 12

Due 10/19: 2.2 #3, 6, 15, 16

2.4 #4, 6, 8, 12

2.5 #6, 8, 14, 18

Due 10/26: 3.1 #6, 8, 12, 18, 20, 22

3.2 #4, 6, 7, 8

Due 11/9: 4.1 #2, 4, 6, 8, 10, 12, 14, 16

4.2 #1, 10, 12, 13, 18

Due 11/16: 4.3 #4, 6, 10, 16, 22

4.4 #2, 4, 6, 14, 16

4.5 #2, 6, 8, 12, 18

Due 11/30: 10.1 #1, 2, 3, 7, 8

10.2 #1(abd), 4, 5, 6, 7, 12, 13, 20, 24, 26