

Math 408 Schedule, Spring 2025

General features:

- 12 homeworks (due on Thursdays): 10% total;
- 12 quizzes: 10% total;
- 2 computer projects (due FRIDAY, MARCH 14 and FRIDAY, APRIL 25): 10% total (5% each);
- 2 midterms (MARCH 10 AND APRIL 21, BOTH MONDAYS): 30% total (15% each);
- 1 final/experimental project (Due FRIDAY, MAY 2): 10%.
- Final exam (Wednesday, May 7, 11am–1pm for the 11am lecture; Monday, May 12, 8–10am for the 10am lecture): 30%.

Quizzes and exams are your individual effort; for homeworks and projects, you are welcome to use any help whatsoever.

About Quizzes: Most quizzes are on Tuesdays, starting with week 2. On exam weeks, the quiz will consist of a problem from the exam you had the day before. There will be two special quizzes on Thursdays the week before each midterm exam.

Weekly schedule

Week 1.

Main topics: Review of probability and descriptive statistics.

Chapters in the book: 1–7.

Important date: January 16 (HW1 is due).

Week 2

Main topic: Estimation.

Chapter in the book: 8.

Important dates: January 20 (MLK Day, no class), January 21 (Quiz 1, on probability), January 23 (HW 2 is due).

Week 3

Main topic: Estimation.

Chapters in the book: 8,9.

Important dates: January 28 (Quiz 2, on estimation), January 30 (HW 3 is due), January 31 (Last day to drop **without** a “W” and **with** refund).

Week 4

Main topic: Estimation.

Chapter in the book: 9.

Important dates: February 4 (Quiz 3, on estimation), February 6 (HW 4 is due).

Week 5

Main topic: Hypothesis testing.

Chapter in the book: 10.

Important dates: February 11 (Quiz 4, on estimation), February 13 (HW 5 is due).

Week 6

Main topic: Hypothesis testing.

Chapter in the book: 10.

Important dates: February 17 (Presidents Day, no class), February 18 (Quiz 5, on hypothesis testing), February 20 (HW 6 is due).

Week 7

Main topic: Linear models.

Chapter in the book: 11.

Important dates: February 25 (Quiz 6, on hypothesis testing),

February 27 (HW 7 is due), February 28 (Last day to drop **without** a “W” but **without** refund).

Week 8

Main topic: Linear models.

Chapter in the book: 11.

Important date: March 6 (Quiz 7, to prepare for Exam 1; HW 8 is due).

Week 9

Main topics: Exam 1; Design of experiment.

Chapters in the book: 8–11, 12.

Important dates: March 10 (Exam 1), March 11 (Quiz 8, on Exam 1), March 14 (Computer Project 1 is due); **No HW due this week.**

Week 10

Main topic: Analysis of variance.

Chapter in the book: 13.

Important date: March 27 (HW 9 is due), **No quiz this week.**

Week 11

Main topic: Categorical data and χ^2 test.

Chapter in the book: 14.

Important dates: April 1 (Quiz 9, on ANOVA), April 3 (HW 10 is due).

Week 12

Main topic: Nonparametric methods.

Chapter in the book: 15.

Important dates: April 8 (Quiz 10, on χ^2 test), April 10 (HW 11 is due), April 11 (last day to drop **with** a “W”).

Week 13

Main topic: Bayesian statistics.

Chapter in the book: 16.

Important date: April 17 (Quiz 11, to prepare for Exam 2; HW 12 is due).

Week 14

Main topic: Exam 2.

Chapter in the book: 12–16.

Important dates: April 21 (Exam 2), April 22 (Quiz 12, on Exam 2), April 25 (Computer Project 2 is due).

Week 15

Main topic: final review.

Chapters in the book: 8–16.

Important date: May 2 (Final/Experimental Project is due). No quiz, and no HW due this week.

If your lecture is 11am MWF, then your final exam is Wednesday, May 7, 11am–1pm, in the regular lecture room.

If your lecture is 10am MWF, then your final exam is Monday, May 12, 8–10am, in the regular lecture room.