Welcome to Math 50!

What is the course about?

- Math 50 is a course about **extracting and interpreting relationships between variables** using real data.
- **Linear and logistic regression models** are the mathematical frameworks for achieving this.

What is the course about?

- Math 50 is a course about **extracting and interpreting relationships between variables** using real data.
- **Linear and logistic regression models** are the mathematical frameworks for achieving this.

Comparison to other courses

	Topic	Overlap
Week 1	Discrete probability models and simulations	10, 20, 40, 60
Week 2	Sums and CLT	20, 40, 60
Week 3	Inference	40, 70
Week 4	Regression single predictor	10
Week 5	Regression with multiple predictors	70
Week 6	Relationship to other models, Logistic regression	70
Week 7	Overfitting and regularization	70
Week 8	Bayesian inference	

Table: Weekly schedule (see course webpage for details)

Resources

Course structure

Policies

How to succeed in this course

What to expect from me

- **Availability:** Office hours and xhours (4 hours total outside of class)
- **Responsiveness:** 24 hours on weekdays. If you'd like to request an extension, plan ahead
- **Grading:** No detailed grading of problem sets (graders will review for completeness). Detailed grading of midterm within 1 week.
- **Material:** Course notes should be understood as a summary of material covered. Refer to textbooks/readings for technical details.