

Math 3215: Lecture 1

Will Perkins

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1 Course Basics

1. Course info and announcements
2. Lectures
3. Quizzes
4. Office Hours
5. Homework
6. Tests
7. Project
8. Exam

2 What is probability?

- If I say that the chance of rolling a six with one throw of a die, what do I mean?
- If the weather man says the chance of rain tomorrow is 20%, what does he mean?
- If you tell a friend that the chance Obama wins reelection is 60%, what do you mean?

3 What is statistics?

- What can we use statistics for?
- How are probability and statistics related?
- How can statistics be misused?

4 Choosing the right probability model

- Models can be more or less detailed, depending on the situation
- What's a good probability model of flipping a coin?
- What's a good probability model of the 2012 presidential election?