

## CSCI 3202

### Lecture 17

October 6, 2025



Wumo by Wulff and Morgenthaler. <https://wumo.com/wumo>

### Announcements

- HW #5 available now
  - Due on Friday, October 10
  - Look through the HW before the Midterm
  - Some material in HW will be on the Midterm
- Midterm on Wed, October 8, 2024 in class

### Midterm

- Exam is approximately 100 points and is 15% of your grade
- Consists of:
  - Multiple Choice
    - Similar to quizzes
  - Short answer
    - Want 1-3 sentences
  - True / False
  - Work it out
    - Written on paper

- You will need a calculator or other way to calculate numeric answers
- Bring Paper and Writing Instrument to Midterm
- There is a midterm study guide on Canvas and a Sample Midterm Exam
  - [Midterm Study Guide](#)
  - [Sample Midterm Questions.pdf](#)
- Answers to the sample midterm are available on Canvas
  - [Sample Midterm Answers 2025.pdf](#)
  - [Sample Midterm Problem Answers 2025.pdf](#)

### Quiz #5

- Average is 64%
- Most missed the probability table question
  - Conditional probability tables are not the same as joint probability tables
  - Does  $P(\bar{A}, B, C) = 1 - P(A, B, C)$ ?
  - How about  $P(\bar{A}|B, C) = 1 - P(A|B, C)$ ?

$$\begin{aligned}
 P(\bar{A}, B, \bar{C}) &= P(\bar{A}|B, \bar{C}) \cdot P(B) \\
 &= [1 - P(A|B, \bar{C})] \cdot P(B) \cdot P(\bar{C}) \\
 &= (1 - 0.2)(0.02)(1 - 0.01) \\
 &= 0.8 \times 0.02 \times 0.99 \\
 &= \boxed{0.01584}
 \end{aligned}$$

- Review Quiz

### Review

- [Sample Midterm Answers 2025.pdf](#)
- [Sample Midterm Problem Answers 2025.pdf](#)
- Review quizzes

### Upcoming

- Midterm on Wed, October 8, 2024 1:25-2:15 pm in our regular classroom, Math 100
- Start two-player games on Friday

- No quiz on Friday