

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 $P(\bar{A}|B, C) = 1 - P(A|B, C)$?

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

- 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