

Midterm: A Study Guide

The exam will be made available on Canvas from November 3-8. You can take it on Canvas using the SmarterProctoring feature (\$5 fee applied), or at EOU's Testing Center or at an EOU Regional Center. You may bring a 4 x 6 note card (both sides) with any formulas or notes on it. A business, scientific, or graphing calculator is highly recommended. Scratch paper is allowed. The time limit is 90 minutes. The material covered is Section 1.1 - 2.2 of the textbook.

You should review the first 4 homework sets and read the examples and work on exercises in the textbook as directed below. You are encouraged to organize a study session with each other over Zoom. The types of problems you may be asked on the exam include:

- Counting techniques (Fundamental Counting Principle, permutation, combination): Problem 21 on page 14, Example 6 on page 21, and Example 4 on page 26.
- Identify the sample space, event, probability of problems regarding coin toss, dice roll, card withdrawal,... Example 6 on page 40, Problem 13 on page 43.
- Check if two events are independent: Example 10 on page 55, Problem 34 on page 60.
- Bernoulli experiment and binomial probability: Example 14, 15 on page 58, Problem 65 on page 61.