

# Homework 4: 9/19 - 9/23

STA 335

Due 11:59pm Monday, September 26

Name: \_\_\_\_\_

**Instructions:** Write-up complete solutions to the following problems and submit answers on Gradescope. Your solutions should be neatly-written, show all work and computations, include figures or graphs where appropriate, and include some written explanation of your method or process (enough that I can understand your reasoning without having to guess or make assumptions). A rubric for homework problems appears on the final page of this assignment.

- Unless otherwise noted, problem numbers are taken from the 2nd edition of Blitzstein and Hwang's *Intro to Probability*.

## Monday 10/3

### Chapter 4

34, 39, 54, 58

## Wednesday 10/5

### Chapter 4

## Friday 10/7

### Chapter 5

**General Rubric**

Points	Criteria
5	The solution is correct <b>and</b> well-written. The author leaves no doubt as to why the solution is valid.
4.5	The solution is well-written, and is correct except for some minor arithmetic or calculation mistake.
4	The solution is technically correct, but author has omitted some key justification for why the solution is valid. Alternatively, the solution is well-written, but is missing a small, but essential component.
3	The solution is well-written, but either overlooks a significant component of the problem or makes a significant mistake. Alternatively, in a multi-part problem, a majority of the solutions are correct and well-written, but one part is missing or is significantly incorrect
2	The solution is either correct but not adequately written, or it is adequately written but overlooks a significant component of the problem or makes a significant mistake.
1	The solution is rudimentary, but contains some relevant ideas. Alternatively, the solution briefly indicates the correct answer, but provides no further justification
0	Either the solution is missing entirely, or the author makes no non-trivial progress toward a solution (i.e. just writes the statement of the problem and/or restates given information)
<b>Notes:</b>	<p>For problems with multiple parts, the score represents a holistic review of the entire problem.</p> <p>Additionally, half-points may be used if the solution falls between two point values above.</p>