



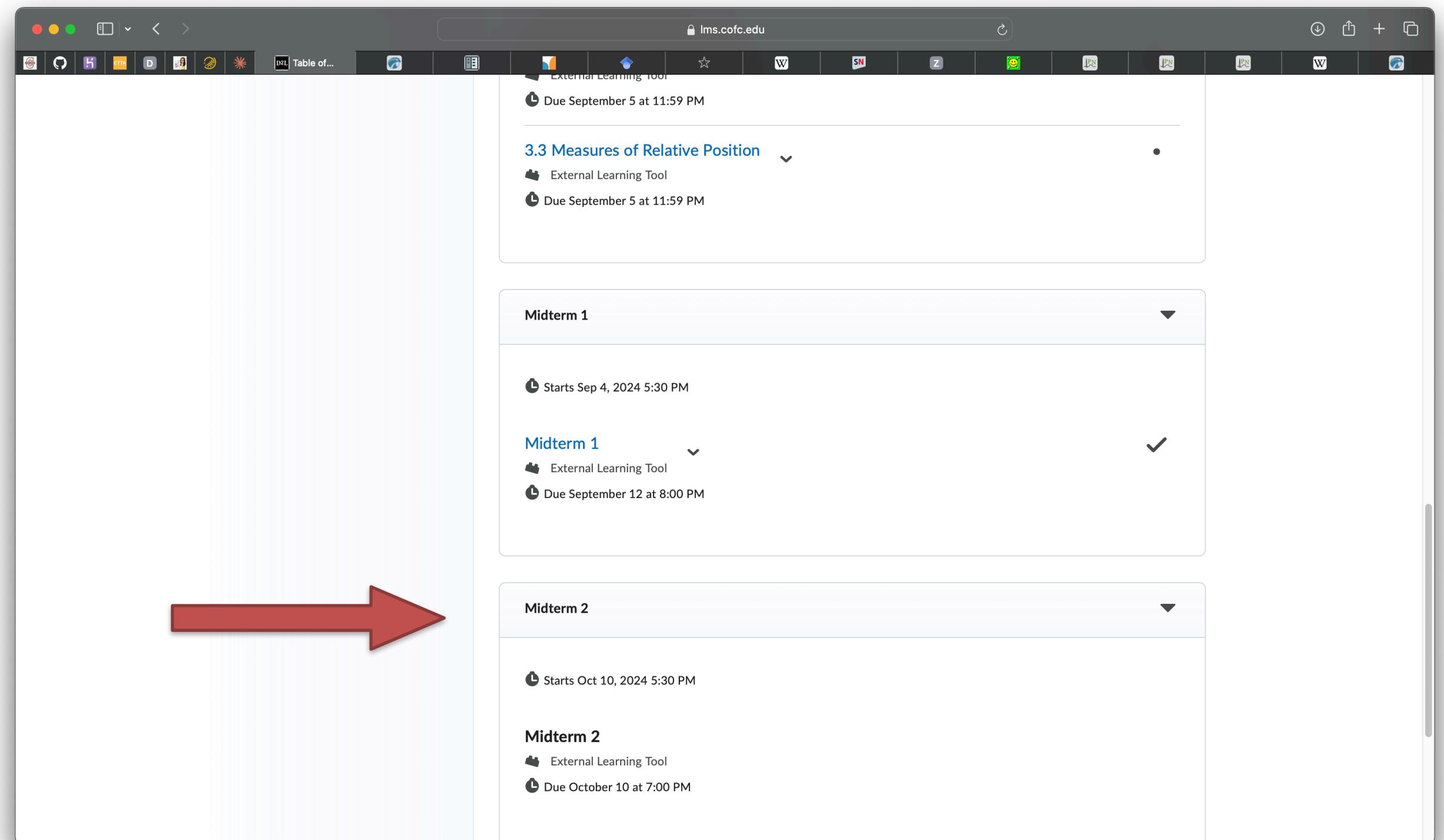
COLLEGE OF CHARLESTON

Midterm 3 Review

Math 104-03: Elementary Statistics

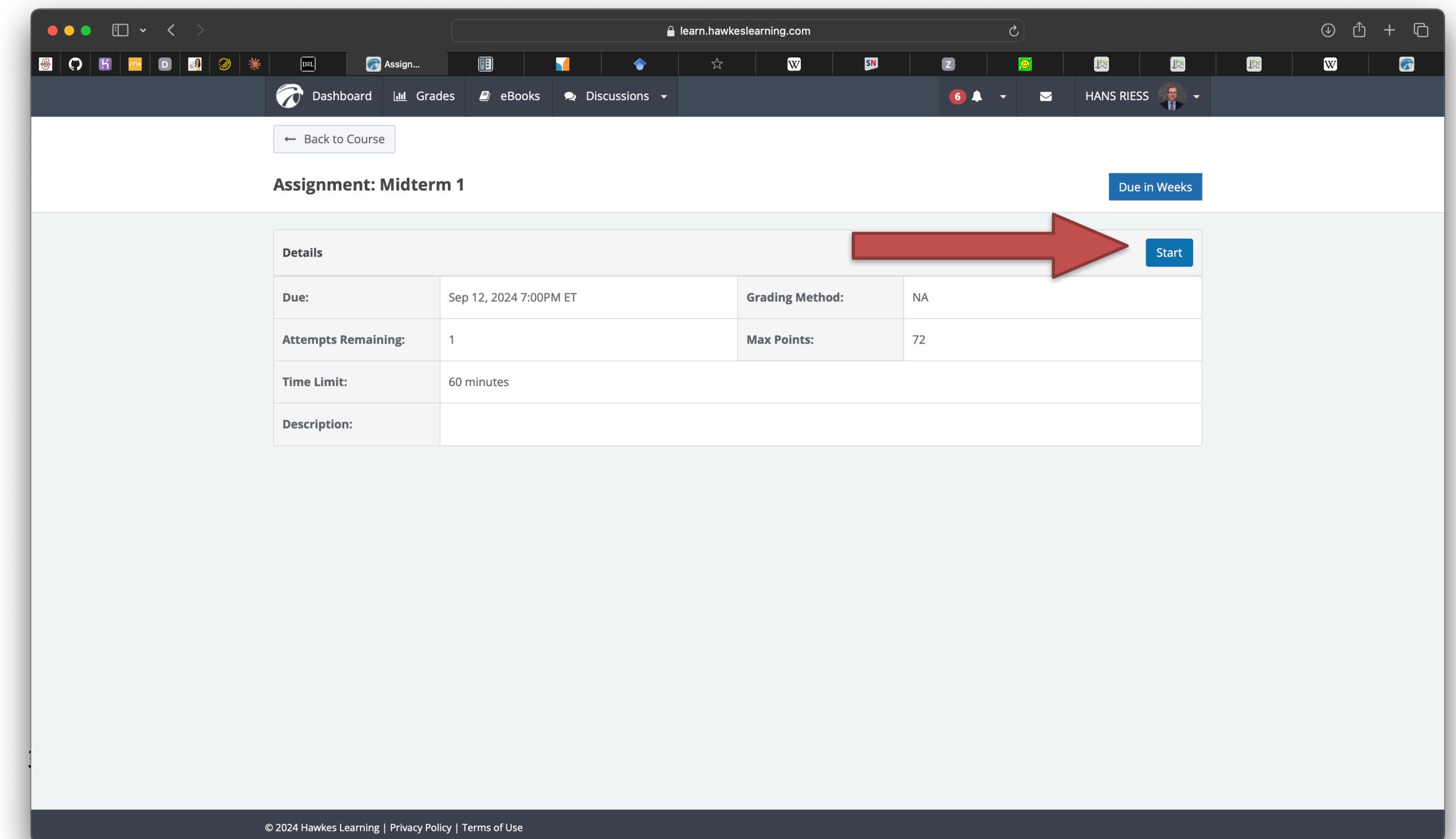
Thursday November 7th

- ▶ Midterm 3 is take-home
- ▶ No collaborating
- ▶ Opens at 5:30pm, Closes 7pm
- ▶ 1 hour to answer questions



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A screenshot of a web browser displaying the Hawkes Learning platform. The URL in the address bar is learn.hawkeslearning.com. The page shows an assignment titled "Assignment: Midterm 1". The assignment details are as follows:

Details	
Due:	Sep 12, 2024 7:00PM ET
Attempts Remaining:	1
Time Limit:	60 minutes
Description:	(empty)

A large red arrow points from the left towards the "Start" button, which is located in the top right corner of the details box. The browser's toolbar and menu bar are visible at the top, and the bottom of the screen shows the standard Mac OS X dock.

Chapter 8

- ▶ Understand confidence intervals/margin of error: $\bar{x} - E < \mu < \bar{x} + E$
- ▶ Find critical values to construct a confidence interval
- ▶ Find confidence intervals for a population mean when:
 - σ known
 - σ unknown (but you are given s)
- ▶ Find confidence intervals for a population proportion
- ▶ Will NOT need to know how to construct confidence interval for population variance

Chapter 10

- ▶ State null (H_0) and alternative hypothesis (H_a)
- ▶ Understand the implication of rejecting or failing to reject the null hypothesis
- ▶ Apply hypothesis tests for population mean
 - σ known \Rightarrow z-test
 - σ unknown \Rightarrow t-test
- ▶ Apply hypothesis test for population proportion \Rightarrow z-test
- ▶ Apply hypothesis test for population variance $\Rightarrow \chi^2$ -test

Chapter 11 (bonus)

- ▶ Apply hypothesis test for 2 population means (σ known, independent sample)