- I. Sections to Read (All content from DeGroot and Schervish's *Probability and Statistics* unless otherwise noted) A digital copy of the textbook is available for on our class PWeb site, under the Day One Access tab.
 - (a) Section 9.1 (pages 538 540, and 545 547 only, sections titled "The p-value" and "Hypothesis-Testing Terminology")
- II. **Objectives** (By the end of the day's class, students should be able to do the following:)
 - Give the precise definition of the *p*-value of a test with respect to significance levels.
 - Provide an intuitive meaning for *p*-value in cases where the null hypothesis is simple, and large values of statistic are unlikely.
 - Calculate the *p*-value of a sample, both in cases with simple and composite hypotheses.
- III. Reflection Questions (Submit answers on Gradescope https://www.gradescope.com)
 - 1) Suppose you perform a hypothesis test and find a *p*-value of 0.049. Explain why it would be incorrect to say that there is a 4.9% chance that the null hypothesis is true.
 - 2) Determine whether each of the following statements is true or false. Briefly explain.
 - i. Every hypothesis test procedure has exactly 1 size.
 - ii. Every hypothesis test procedure has exactly 1 level of significance.
 - iii. Every hypothesis test procedure has exactly 1 p-value.
- IV. Additional Feedback Are there any topics you would like further clarification about? Do you have any additional questions based on the readings / videos? If not, you may leave this section blank.