2023 – 570L Week 2 Worksheet:

In Lab Activities (10 Points):

1. Record your metadata:

   Weather:

   Date & Time:

   Observation region (Circle):

   Undisturbed Community High Disturbance 2022 Burned Region 2019 Logged Region

2. Using two transect-tapes, measure out the boundaries of your study region.

3. Receive your random assignment points. At these coordinates, place the lower right corner of a quadrat. If a tree prevents you from laying down a quadrat, mark a 1-m x 1-m boundary where it should be. Count all individual species in the quadrat. You should count individual different species. Identify them as best as you can, however, it is more important to just describe the number of different taxa.

   a. Log the counts of each taxa as a new row in your datasheet.

Completion Activities
Experiment Results (30 points):

a. What was the hypothesis for this activity (2.5)?

b. What data were collected in this activity? List all explanatory and response variables and what types of data (categorical, continuous, count, rate, etc.) (2.5):

c. Create a figure which shows your key results (10):

d. Report the key results in a short statement here. Utilize appropriate statistical analyses. (10):

e. Make a short statement about how well these results support the original hypothesis. (10)
    a. *Note for this experiment, you selected one of three diversity metrics. Discuss why this metric was selected, what it measures and some potential advantages/flaws. How does this influence your results?*

1. Experimental Evaluation (10 points):
    a. Do you think this experiment effectively addressed the hypothesis? What could have been done better? How would you better approach this activity if you were to do it again:

2. Ecosystem Observation:
   Write at least 5 ecological questions about the ecosystem or study topic we addressed today. Questions can be broad and across any topic however, they should be focused on ecological topics: