

### **PRE-PROPOSAL SUMMARY**

THIS IS DUE 2PM THURSDAY FEBRUARY 9<sup>TH</sup>. BRING IT TO THE DISCUSSION SECTION.  
GRADING: 5% OF YOUR TOTAL PROPOSAL GRADE.

Fill out the following sections. 1-2 sentences each (max 2).

*Motivation:*

-This is the bigger picture. Why do you care about the topic?

*Problem:*

-What is the gap in our understanding that you hope to fill with this study?

*Hypothesis:*

-What you think is happening, or why something is happening based on the theory or the literature.

*Method:*

-How you will test your hypothesis.

*Results:*

-Two possible results, one that supports your hypothesis and one that rejects it.

### **EXAMPLE:**

Motivation:

-Climate change is increasing and will cause the extinction of many species.

Problem:

-We don't know what species will be able to survive increased temperatures and which will go extinct.

Hypothesis:

-Greater genetic diversity gives plants a wider climate range, therefore the ability to withstand climate change.

Method:

-Select three pairs of species: one high diversity, one low diversity. Grow them in a grow chamber at increased temperatures, measure fitness.

Results:

-High diversity plants will have greater survival at increased temperatures OR high diversity plants will not have greater survival at increased temperatures.