**BIONB 4200: Final presentation assignment**

**Presented on: Nov 11, Nov 18, or Dec 2**

**Appropriate length: 30 min**

For the final assignment for the course, you will work in pairs/groups to create an informal presentation on a central course topic. Work in pairs/groups to create a lecture, activity or field trip on your topic.

Here are the requirements for the presentation:

1. Include a summary of what we learned in class about the topic, including examples from wild animals, etc.
2. Include an extension of what we learned in class in the form of a brief summary of the current state of the research literature on that topic. What are some active areas of research on that topic that are being conducted right now?
3. Include a case study that describes, in detail, one such recent scientific paper on your topic. Describe the hypothesis the paper tested, the predictions, the results, and the implications for the field.
4. Include a summary of some applications of the study of your topic to fields outside of biology and to applied fields. Give at least one example for each.
5. Include class participation. Involve the class during any point in your presentation by leading them in active discussion about a topic, in generating hypotheses and predictions for your case study, in group problem solving or in activities where the class breaks up into groups and completes activities or answers more complex thought questions, or any other ideas you come up with. Involve the class in your presentation in at least 2 ways.
6. Prepare one Piazza thought question that will get the other students thinking about your presentation topic and/or the research you will describe. **Due to me (via email) one week before your presentation takes place.**
7. Have your presentation completed and **meet with me at least 2 days before you present so we can go over your plans.** I can offer suggestions/ideas, and help clarify concepts. Be sure to practice your presentation beforehand so you know that the length will be appropriate.

You can create a powerpoint slideshow, use the whiteboard or do an informal oral presentation as part of a field trip based on your topic to somewhere within walking distance.

Possible topics: properties of sound, methods for studying sound, animal sound production mechanisms, neurobiology of signal production, learned and innate vocalizations, evolution of acoustic communication, adaptive functions of signals or sexually selected acoustic signals.

I will assign your pair/group and you will choose your topic and sign up for a presentation date/time in class this week.