Scientific Writing

Schedule

|  |  |  |
| --- | --- | --- |
| 8:30 | Collect Lab 2 | Any immediate Qs |
| 8:40 | Overview of Lab 1 – Habitat | 10 min |
| 8:50 | Introduce Peer Evals & SAs | 5 min |
| 8:55 | Compass declination & acreage error | 5 min |
| 9:00 | Lecture on Scientific writing | 30 min |
| 9:30 | Introduce and begin lab 3 | 1:30 |

Learning & Instructional Objectives

Lab 1 Habitat Modeling

* Describe the environmental needs of wolves
* Differentiate good vs bad habitat based on spatial relations of needs
* Identify the effect of human land-use and development on available habitat
* Explain how a USGS topography map is useful for determining habitat space

Peer Evaluations

* Necessary component to the course – individual grades for group work
* Confidential between student and instructors
* Will be used for assessment, and for individual development/improvement

Short Assignments

* Used to introduce and acquaint students with scientific writing and issues pertaining to fieldwork
* Also for reflection and assessment of material, group presentations, overall course

Compass & Acreage errors

* Given a magnetic bearing, the true direct is higher than the magnetic
* Map template – 1 sect = 640acres. 4 1/4s = 160 ac; ¼-1/4 = 40 ac ¼-1/4-1/4=10 ac

Lecture on Scientific writing

* Overall objective is to provide a reference for student use on writing the research report
* Identify the attributes of a good data figure as a model to make your own
* Define the IMReD system of scientific writing
* Given different attributes of a study (e.g., collection protocol, data sets, research question), identify the section of a paper where it should be presented and explained
* Visualize and replicate a good structure of a scientific paper