

# FNR 65

## Lab 2: Vector, Raster, TIN Data Models

Name: \_\_\_\_\_ Date: \_\_\_\_\_

This lab will allow us to explore these different data models and we will learn what types of data can best be represented in each of the three data model types.

**Part I.** Map network drives and set up data directories

**Part II.** Familiarize ourselves with ArcMap.

- a. Table of Contents
- b. Data View vs. Layout View
- c. Catalog
- d. Toolboxes
- e. Search
- f. Data Frame Properties
- g. Add Data (begin with NAIP imagery)
- h. Save \*.MXD file (relative paths)

**Part III.** Appropriate Data Models: We will create some data sets given the requirements set by our client. You are working for a GIS consultant company. Your GIS coordinator has scheduled an interview with a new client who has some specific goals. You will need to interview the client, ask them what their goals are, and determine the best data model to use to answer their questions.

- a. Your client is interested in a stream that runs through Arcata. They intend to do some restoration work along this stream and will need to know the relative distance from the mouth of the stream where it enters Humboldt Bay.
  - What data model would you use? \_\_\_\_\_
  - Create this data set and screen digitize the features.
- b. Your client is creating an inventory of the buildings that face the Arcata Plaza for their client, Arcata Mainstreet. The first step in their analysis requires them to know the square footage of each building.
  - What data model would you use? \_\_\_\_\_
  - Create this data set and screen digitize the features.
- c. Your client is interested in determining the likelihood that any given land parcel would be within a certain distance from the stream that you digitized in part a. They want to know this because prehistoric archaeological remains are more likely to be found in locations nearest water sources (the Wiyot used water ways to travel and as a source of drinking water)
  - What data model would you use? \_\_\_\_\_
  - Create this data set and screen digitize the features.