Part I. Data Analysis (may be completed as a group): For individual species/overall for canopy and understory

Follow Procedure steps 1-7 (as appropriate) on page 709 of your lab manual. However, you should realize that you MUST use MS Excel to emulate the data tables AND build calculations into your Excel spreadsheets. For ALL data collected by the entire class, do the following:

- Calculate dominance and relative dominance for **tree** species
- Calculate density and relative density for both **shrub** and **tree** species
- Calculate frequency and relative frequency for both **shrub** and **tree** species
- Calculate importance value for **tree** species
- Present results in graphical form (11 graphs total) – consult *Exercise 1.4, Lab Study*  
  **A. Tables and B. Graphs** for guidance (note the differences between line and bar graphs)

Part II. Write-up: For ALL data (must be submitted individually)

- Write a qualitative description of the area that was sampled. Note any changes in the various biotic components calculated above across ALL quadrats analyzed.
- Answer the following questions based on your analyses above.
  - Which tree species was/were most dominant?
  - Which species were most frequent?
  - Compare plant density and frequency of tree and shrub species.
  - Keeping in mind both your own group’s data and all class data, what were the possible sources of error regarding the:
    - plants you counted/measured?
    - plots/quadrats you surveyed?

All lab reports are due at the BEGINNING of lab during the week of May 31st