



GREENHOUSE PROJECT

Each week you will receive a new handout with instructions towards the next part of your greenhouse design project. Your work will be due the following Tuesday at the **beginning** of class. There will be 4 assignments and the fifth week the project in total will be due. You will also be making a brief, 10 minute presentation, to your class on your greenhouse design during lab time of the fifth week. All information should be provided in complete sentences. Grammar and spelling count.

This will be approximately $\frac{1}{2}$ of your lab grade.

WEEK 1 Assignment (DUE Tuesday October 30th): Crop selection, market, site selection, basic greenhouse floor plan

1. Choose the crop you plan to produce. The only rule is that this should be a crop with some commercial potential. Everything and I mean everything should relate back to this decision. When you make your final presentation I may ask you how your construction, irrigation choices, etc. relate to specific crop needs.
 - a. List the scientific name of the crop
 - b. Assemble at least 3 extension references relating to the production of this crop in the Mid-Atlantic (hard copies)
 - c. Describe the environmental requirements of this crop
 - i. Temperature
 - ii. Humidity
 - iii. Light
 - iv. Day-length
 - v. PGRs ?
 - d. Describe the 3 most devastating insect pests and 3 most devastating diseases of this crop.
 - e. List at least 3 professional organizations that represent producers of this crop.
2. Choose the site for your greenhouse operation. This must be a real location that can be looked up on free internet mapping services. Discuss each of the following in detail
 - a. Is there room for expansion?
 - b. Topography
 - c. Land-Use Prediction
 - d. Climate
 - e. Labor Supply
 - f. Accessibility
 - g. Water

3. Draw your basic greenhouse floor plan. Make sure you draw it to scale. You can hand draw this with graph paper if you like.
 - a. Calculate potential square footage of growing area
 - b. Be sure to include orientation info (N-S-E-W)
 - c. Include head house, area for parking, and any other needs pertinent to your business.