I. Introduction to weed science lab.

A. Websites with handouts, notes and other resources.

1. Weed Science Hawaiian Style with Dr. DeFrank (URL: http://www2.hawaii.edu/~defrenk/)
   a) Site contains lecture notes and handouts.

2. Weed Control in Hawaii with Dr. DeFrank (URL: http://www.ctahr.hawaii.edu/deFrankJ/).
   a) Site contains weed I.D. website for lab and streaming media content.

B. Review of topics and activities for TPSS/PEPS 481

1. Review class list, and grading options, students’ signup sheet filled in including new students.

2. List of handouts for Introduction to Weed Science Lab
   a) Lab outline with grading system and field laboratory exercises.
      (1) Discussed field projects, group assignments, class requirements (weed collections, single and group reports and oral seminar)
      (2) List of required weeds to know students will be required to know: scientific families, genus/species as well as common names, and annual or perennial weeds. Note date of weed I.D. quiz.
      (3) Specimen labels explain what these are for.
         (a) Display herbarium specimen.
      (4) How to make a weed collection, total handouts = 4.
         (a) Show weed I.D. binders and Hawaiian weed book available.

(1) Outline of lab topics with dates, point system and values for earned course grades.

(2) List of weeds required to know for weed I.D. test.

(3) Instructions on how to make a weed collection.

(4) Weed I.D. labels.

II. HOW TO PREPARE SPECIMENS FOR WEED COLLECTION

A. Components of a good weed herbarium specimen.

1. Each specimen should include those physical features that allow for accurate identification.

2. Large specimens should be cut up to include only those parts needed for identification.

3. With very thick roots cut in half or more to show outside morphology.

4. With 3-D plants make them 2-D.

5. Press plants with both upper and lower portions of the leaf showing.

6. All weed specimens must include flower parts.

7. Each collection must contain members from at least 12 different families more are better. See Weeds to know list there are 19 families listed there.

8. Details of Weed I.D. collection grading:
a) **Total points for the collection is 150.**

(1) 1 point for correct spelling (any part of name misspelled =1pt.

(2) 1 point for correct common name.

(3) 1 point for correct family (i.e. the scientific family name).

(4) 2 points for specimen quality, grading is subjective based on inclusion of identifying characteristics, mounting and general tidiness. Both good and not so good samples illustrated.

(5) 25 points for **MASTER LIST, details of this list:**

   (a) **Weeds numbered and alphabetized first by families, then by scientific names within families (genus has 1st priority, followed by species).**

   (b) **Specimens in the collection are arranged in the same order as they are found in the Master List.**

(6) **Weed collections due Nov. 29, 2007.** You will lose 5 points for every late day, including weekends.