

TENTATIVE “LABORATORY” OUTLINE
WEED SCIENCE (TPSS/PEPS - 481) – FALL 2011
 URL for Weed Science Lab: <http://www.ctahr.hawaii.edu/deFrankJ/>

LAB #	DATE	TOPICS COVERED
1	8/24	Introduction to lab, Handouts and review of required work, tour Magoon Facility
2	8/31	Weed I.D. Grasses, discussion and selection of lab projects, start Project #01
3	9/07	Weed I.D. Broadleaf and sedge weeds, lab project assigned and start transplants for lab projects
4	9/14	Weed I.D. Quiz and How to present methods and results of Weed Science Lab field experiments
5	9/21	No-tillage farming – annual crops
6	09/28	No-tillage farming – orchard crops
7	10/05	Allelopathy in Agroecosystems Visual ratings of herbicide injury for evaluation of test plots.
8	10/12	Living sods for weed control in tropical cropping systems
9	10/19	Spray equipment: nozzles, pumps and specialized applications systems
10	10/26	Sprayer calibration lecture, demo of small sprayers, collect data for calibration homework
11	11/02	Check calibration homework (<i>credit earned</i>), review homework, calibration quiz
12	11/09	Review of calibration quiz.
13	11/16	Herbicide injury and diagnosis Collect data from experiments
14	11/23	Pesticide labels and safety and controlling spray drift. Review data from experiments be prepared to discuss graphics data for seminar presentations
15	11/30	WEED COLLECTIONS DUE. Practice seminar with PowerPoint slides
16	12/07	Oral presentations of field experiments. Written reports due of herbicide performance
17	12/12	Lab final covers all lab materials except weed I.D. time: 2:15 to 4:15, other dates possible 12/14/11 at 4:30 p.m. and 12/16/11 at 2:15 p.m. Class will vote for date!

GRADING SYSTEM FOR HORT 481 LABORATORY:

DESCRIPTION	POINTS AVAILABLE	% OF FINAL GRADE
Weed I.D. quiz	30	15
Calibration homework	10	05
Calibration quiz	40	20
Written reports		
1. Herbicide performance	20	10
2. Selected group reports		
a) Oral seminar, group grade	20	10
b) Written report, group grade	Not needed	-
Weed collections	30	15
Lab. final	50	25
Totals	200	100

RELATIONSHIP OF POINTS EARNED TO FINAL LABORATORY GRADE

RANGE SUBJECT TO CHANGE	
POINTS	LAB GRADE
200 - 181	4.0
180 - 161	3.0
160 - 141	2.0
140 - 121	1.0
< 120	< 1.0

The laboratory projects will be performed outside at the Magoon Greenhouse facility on the Mauka campus. All students will be required to make a weed collection and write-up the results of Project I (Herbicide Performance). The remaining projects will be the responsibility of assigned groups. Group size will be based on class size. Each group member will receive the same grade. Each group will be required present a live 13 minute (**max**) PowerPoint presentation of the results. A digital camera will be available to record results for use in the PowerPoint presentations.