

SHORT GUIDE TO WEBLAB

You'll need to register before using WebLab.

- Affiliation = Student
- Requested Group = Guest Users
- You can give our course number and refer to PSU in the notes section.
- They will email you when the account is set-up.

GETTING TO WEBLAB

- On the lab computers it will run under Mozilla Firefox if pop-ups are disabled. (May already be done on your machine.)
- If you are doing it from home you need to have Java version 1.4.2 or higher.
- Go to <http://ilab.mit.edu>
- Documentation is available there.
 - You can use the links to weblab or the documentation from WebCT, however you probably need to enter WebCT from Mozilla for it to work.

LOGIN

DEVICE: choose the right device.

SETUP

- Set up your SMUs. See manual for details. It does give you good error messages, so it is easy to get it set up by playing with it a bit. Tips:
 - Click on each SMU to set it up.
 - Just moving your mouse over the SMU shows the settings.
 - You have to name the variables, even if you aren't going to use them.
 - VAR1 will be your main sweep variable, or in other words your x axis.
 - You will need to check the box to download the variables of interest.
 - If you want to set something to ground, or another constant set your "Mode" to COMM.

MEASUREMENT

- Run measurement.
- It will automatically display the graph. Play with the variables until you have the output you desire.
- Save the set-up if desired.
- For your final data output you want a fairly fine grid so as to not cause discontinuities in curve fitting.

RESULTS

- Download data.

CURVE FITTING: Load the data into MATLAB for curve fitting. It is possible to use Excel, but more difficult.