

# UC Berkeley Physics 111 Lab Computing Environment

## 1. *What is the University of California at Berkeley Computer Use Policy?*

- The complete computer use policy is available online at:  
<http://technology.berkeley.edu/policy/usepolicy.html>

## 2. *How to use the Physics 111-Lab Computer Network*

- To Log into the Physics 111-LAB network you do the following:  
When enrolled in the course and have filled out a yellow 111-Lab card turn into the 111-Lab Staff you will be assigned a computer account. Then you log into a 111-Lab computer using your CalNet ID # or Student ID #; using your own password phrase.  
In the 111-Lab log into the **CAMPUS** server.

## 3. *Where is everything in the 111-Lab computer network?*

- Write-ups for BSC and Advanced Lab are on the [111 Advanced Lab Website](http://socrates.berkeley.edu/~phylabs/) (<http://socrates.berkeley.edu/~phylabs/>). For the Advanced Lab experiments click the three letter abbreviation of the lab you want on the left to access the page for a particular lab. The videos for each experiment are also located on the main page (except for the safety videos – see below).
- Reference reprints (in pdf format), safety manuals and videos, equipment manuals, and other useful things are located in the folder **111 Lab share** on the 111-Lab Network in the folder **111 Lab Share**.
- References for BSC ie; PSpice Files, are located on the folder **111 Lab share** on the 111-Lab Network in the folder **BSC Share**
- Save your work in your own *My Documents* folder or your *Desktop*. These folders are backed up and will follow you no matter which computer you log on. Copy any file you plan to edit to *My Documents* before you open it. (An easy way to do this: right click on the file you want to copy, select 'Send To->My Documents' from the context menu.)
- The [111 Advanced Lab Website](http://socrates.berkeley.edu/~phylabs/adv/index.html) is available from outside the lab at <http://socrates.berkeley.edu/~phylabs/adv/index.html>. You must be in the lab to access the 111-Lab shares or the safety videos, all other videos available from outside the 111-Lab.

## 4. *How do I analyze my data?*

- Microsoft Office with Excel is available on all lab PCs.
- The Analyze Program is available on your desktop. (for RUT, MUO, BRA, & GMA) Old DOS program see Don for details
- KGraph is available to graph or plot data Drag & drop program.
- Matlab is available on all machines running Windows XP (nearly all of the machines in the lab). There are some useful Matlab macros on the [111 Lab\Advanced Lab Share](#).

## 5. *How can I learn Matlab?*

- Visit one of the many excellent online introductory guides (such as: <http://math.ucsd.edu/~driver/21d-s99/matlab-primer.html>, <http://www.indiana.edu/~statmath/math/matlab/gettingstarted/index.html>, or <http://users.rowan.edu/~shreek/networks1/matlabintro.html>).
- If you don't like any of those, try a [Google search](#) with the key phrase 'Matlab (Introduction or Primer or "Getting Started")'.
- If you are good with computer languages, you can probably pick up most of what you need just by looking at the examples. Run Matlab (Start->All Programs->Matlab 7.1 ->Matlab 7.1) and type 'help help' into the command window for basic information.