



Computer Use Policy

The complete University of California at Berkeley secure computer use policy is available online at: <https://security.berkeley.edu/policy/usepolicy.html> [1]

How to use the Physics 111-Lab Computer Network:

Please purchase before coming to class your own personal 8GB Thumb/Pen Drive for file storage

Save files to your My Documents folder and back them up to your Thumb drive.

To Log into the Physics 111-LAB network do the following:

Your CalNet Login name (Friendly Name) will be used with your own password phrase to Log into computers. In the 111-Lab login the Windows Login into the **CAMPUS** server.)

Where is everything on the 111-Lab computer network?

- Write-ups for Instrumentation Lab and Advanced Lab are on the [Physics 111-Lab Website](#) [2] Click on Instrumentation or Experimentation picture. ***All of the shared items are located on the 111-Lab computers on the U: Drive in your My Computer folder.*** (For the Advanced Lab experiments click the three letter abbreviation of the lab you want to access the page for a particular lab. View the video for each experiment you are doing which is located only on the 111-Lab Shared Network inside the Physics 111-Lab.)
- Reference Reprints (in pdf format), Instrumentation and Experimentation Data Sheets, equipment manuals, and other useful references are located on the UC Berkeley Library Site <http://physics111.lib.berkeley.edu/Physics111/> [3] (CalNet ID Name and Password required)
- Safety manuals and videos are on-line from the main Web Site, including Radiation Safety.
- References for Instrumentation ie; Multisim, are located in the folder **111 Lab share** on the 111-Lab Network drive in the **BSC Share folder**.
- 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 onto in the 111-Lab. For safety you should Back-up your own files onto your 8GB USB THUMB DRIVE. 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 Experimentation Lab Website is available from outside the lab at <http://phylabs.berkeley.edu/> [4] You must be in the lab to access the 111-Lab shared folders, all other videos are available from outside the 111-Lab.

How do I analyze my data?

- Microsoft Office with Excel, and R_studio is available on all lab PCs.
- The Matlab Program is available on your computer desktop in the 111-Lab.
- No Matlab remote access is available.

Matlab is available on all computers in the 111-Lab running a minimum of Windows 7. You can download some useful Matlab macros from the [111 Lab Library Site](#) [5] or the experimentation lab [Matlab Fitting Scripts](#) [6] page.

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> [7], <http://www.indiana.edu/~statmath/math/matlab/gettingstarted/index.html> [8], or <http://users.rowan.edu/~shreek/networks1/matlabintro.html> [9]).
- If you don't like any of those, try a [Google search](#) [10] 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 R2012b ->Matlab R2012b, vesion 8.0.0.783) and type 'help help' into the command window for basic information.

Source URL: <http://instrumentationlab.berkeley.edu/computer>

Links

[1] <https://security.berkeley.edu/policy/usepolicy.html>

[2] <http://phylabs.berkeley.edu>

[3] <http://physics111.lib.berkeley.edu/Physics111/>

[4] <http://phylabs.berkeley.edu/>

[5] <http://physics111.lib.berkeley.edu/Physics111/Reprints/MatLab/>

[6] http://advancedlab.berkeley.edu/mediawiki/index.php/MatLab_Fitting_Scripts

[7] <http://math.ucsd.edu/~driver/21d-s99/matlab-primer.html>

[8] <http://www.indiana.edu/~statmath/math/matlab/gettingstarted/index.html>

[9] <http://users.rowan.edu/~shreek/networks1/matlabintro.html>

[10] [http://www.google.com/search?](http://www.google.com/search?hl=en&q=Matlab+%28Introduction+or+Primer+or+%22Getting+Started%22%29&btnG=Google+Search)

[hl=en&q=Matlab+%28Introduction+or+Primer+or+%22Getting+Started%22%29&btnG=Google+Search](http://www.google.com/search?hl=en&q=Matlab+%28Introduction+or+Primer+or+%22Getting+Started%22%29&btnG=Google+Search)