MATLAB Resources

1. MATLAB Help: Video Tutorials/Demos on Specific Topics and Features

2. MathWorks Website: Interactive MATLAB & Simulink Based Tutorials
   (http://www.mathworks.com/academia/student_center/tutorials/)
   Strongly Recommended: Interactive MATLAB Tutorial

3. MathWorks Recorded Webinars
   (http://www.mathworks.com/company/events/webinars/index.html)

4. MATLAB Central ➔ File Exchange
   http://www.mathworks.com/matlabcentral/fileexchange/

5. myWPI – SESA Training Website (http://blackboard.wpi.edu ➔ My Organizations module)

6. How to access MATLAB at WPI
   MATLAB Installation: http://www.wpi.edu/Academics/CCC/Help/Software/Installs/matlab.html
   Remote Desktop: http://www.wpi.edu/Academics/CCC/Help/Software/termserv.html

We have a limited number of MATLAB licenses and our license server will manage the number of concurrent users on a first-come, first-served basis.

Please close the MATLAB session when done so that the license may be returned to the license manager for reallocation to other users. Also, please note that the toolbox licenses cannot be returned without exiting MATLAB.

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1. **MATLAB Help**: Video Tutorials/Demos on Specific Topics and Features

Each video shows a specific feature or application example. Topics range from basic to advanced.

1. Open MATLAB
2. Matlab Desktop → Start → Demos (Fig.1)
3. Click the demo that you want to watch (Fig.2)
4. Click “Run this demo” (Fig.3)
2. MathWorks Website: Interactive MATLAB & Simulink Based Tutorials

(http://www.mathworks.com/academia/student_center/tutorials/)

Note: You may be asked to create an account if you do not have one already.
2.1 Strongly recommended: Interactive MATLAB Tutorial

Interactive MATLAB Tutorial

Complete this request form for immediate access to the interactive MATLAB tutorial. (For student and faculty use only.)

Where to Start
Get started by registering, which will give you access to the full tutorial set.

If you're new to MATLAB, start by viewing the on-ramp modules. If you're already familiar with MATLAB, jump to the modules that interest you most.

Interactive MATLAB Tutorial

MATLAB essentials to help you complete your homework assignments

If you're new to MATLAB, start by viewing the on-ramp modules. If you're already familiar with MATLAB, jump to the modules that interest you most. You can download files of the examples featured in this tutorial.

Note: Adobe Flash Player (version 8 or above) is required.

MATLAB On-Ramp (approximately 30 minutes)

Learn the basics of MATLAB in the context of using it as a powerful graphical calculator.

Navigating the MATLAB Desktop 5:40
Get comfortable with the MATLAB desktop environment

MATLAB Fundamentals 28:11
Learn to use MATLAB as a powerful tool for solving problems and visualizing functions

MATLAB for Problem Solving (approximately 60 minutes)

Using a case study, walk through the process of solving problems in MATLAB.

Using MATLAB to Solve Problems 2:10
Explore a case study of using MATLAB to solve problems

Importing and Extracting Data 13:27
Work with data in MATLAB – how to bring it in and manipulate it

Visualizing Data 11:23
Better understand complex mathematical functions and data by visualizing it with MATLAB

Conducting Computational Analysis in MATLAB 11:24
Analyze data through MATLAB functions and computation

Fitting Data to a Curve 6:16
Model your data to an equation and interpolate upon it in MATLAB
3. MathWorks Recorded Webinars

http://www.mathworks.com/company/events/webinars/index.html
4. MATLAB Central ➔ File Exchange

http://www.mathworks.com/matlabcentral/fileexchange/

File Exchange offers an extensive online library of files (http://www.mathworks.com/matlabcentral/about/fx/)
5. myWPI – SESA Training Website

5.1 http://blackboard.wpi.edu ➔ My Organizations module

To access SESA Training web site:

1. Log in to the blackboard.wpi.edu
2. Once you have logged into Blackboard, click on the Community tab at the top of the page
3. In the 'Organization Search' text box type SESA and click "Go".
4. The organization information will be displayed in the Search Results. Click the down arrows located to the right of the Organization ID and then click on Enroll
5. An "Action Successful" enrollment message will appear on the screen. Click the OK button to access the organization.

5.2 MATLAB Training

http://www.wpi.edu/webapps/regi/sesa.html
6. How to access MATLAB at WPI

6.1 MATLAB R2012a Install

http://www.wpi.edu/Academics/CCC/Help/Software/Installs/matlab.html

Off-campus installation notes:
1. You must be connected to the VPN in order to install and to run this program
2. Matlab is a very large program and the install time will vary depending on your connection speed from off campus. Dial-up connections will not be supported.

Installation Instructions
1. Map your T: drive to \rivet.wpi.edu\applications.
2. Once the drive is mapped, navigate to the Matlab directory, right click the shortcut for the version of Matlab you want to install and select Run as Administrator.
3. Run the MATLAB_LICENSE_TRIAD.VBS file.
4. For more information about this install you may view the document 'ReadMe.txt' in the Matlab directory.

NOTE: The license server for Matlab is a triad that is set in a system environment variable. You should not need to enter it since the installation is automated. However, if the license installation fails you may need to copy the T:\Matlab\MATLAB_LICENSE_TRIAD.VBS to your desktop and run it locally due to script security permissions on personally own computers.

6.2 Using Remote Desktop (http://www.wpi.edu/Academics/CCC/Help/Software/termserv.html)

Remote Desktop, also known Terminal Services or Terminal Server, is a Microsoft Windows Server setup for remote application use. It allows WPI to provide a means for staff, faculty & students to access applications or data from off campus. It functions as if you are logged into a PC on campus.

Connecting to the WPI Windows Terminal Server Windows (http://www.wpi.edu/Academics/CCC/Help/Software/termserv_win.html)
1. The VPN is no longer needed when connecting to the terminal server from off campus.
2. Click Start, and choose the following menu items: All Programs → Accessories → Remote Desktop Connection.
3. In the text box labeled Computer: inside the window that appears, type windows.wpi.edu, then click the Connect button.
4. You will now be connected to the terminal server remotely. To continue the session in a window rather than in fullscreen mode, double-click on the yellow bar at the top of the screen labeled windows.wpi.edu. To return to fullscreen mode from windowed mode, double click on the window's title bar. Click the OK button to acknowledge WPI's Acceptable Use Policy.
5. Type your WPI Windows username and password, then choose the ADMIN domain from the Log on to: dropdown. Click the OK button.
6. You can now use the terminal server as if you were using a WPI public lab computer. When you're finished using it, be sure to log off by choosing Log Off from the Start Menu.