

# Introduction to Scientific Python

## Course Material

PowerPoint slides for this short course are available on the Texas A&M HPRC website:

[https://hprc.tamu.edu/training/intro\\_scientific\\_python.html](https://hprc.tamu.edu/training/intro_scientific_python.html)

## About Jupyter

**Jupyter** is a web application that allows you to easily connect to a remote server and run applications. We will be using **Jupyter** to connect to **titan.tamu.edu** and use Python.

## Requirements

To access the **Jupyter Notebook** you will need:

- An Internet-connected device (desktop, laptop, or large tablet is preferred)
  - **Note:** If you are using a phone without Wi-Fi access, data rates may apply.
- Internet access (tamulink-wpa Wi-Fi, OAL Ethernet)
- An internet browser

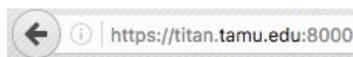
For this example, we will use Windows 10, tamulink-wpa, and Firefox. These choices will not make a significant difference in using **Jupyter** once you are connected.

## Setup

(1) Open your Internet browser.

(2) Go to one of the following links:

Link 1: <https://titan.tamu.edu:8000/>



(3) You should then see a login window. Use your **TAMU NetID** credentials to log in. A **TAMU NetID** is the same username and password as Howdy and Ada. **Note:** A NetID is **not** the same as a UIN.

Sign In

Username:

Password:

Sign In

(4) Upon successful login you will see some files and directories. Please click on the “**Introduction\_to\_Scientific\_Python**” directory.

Files Running Clusters

Select items to perform actions on them.

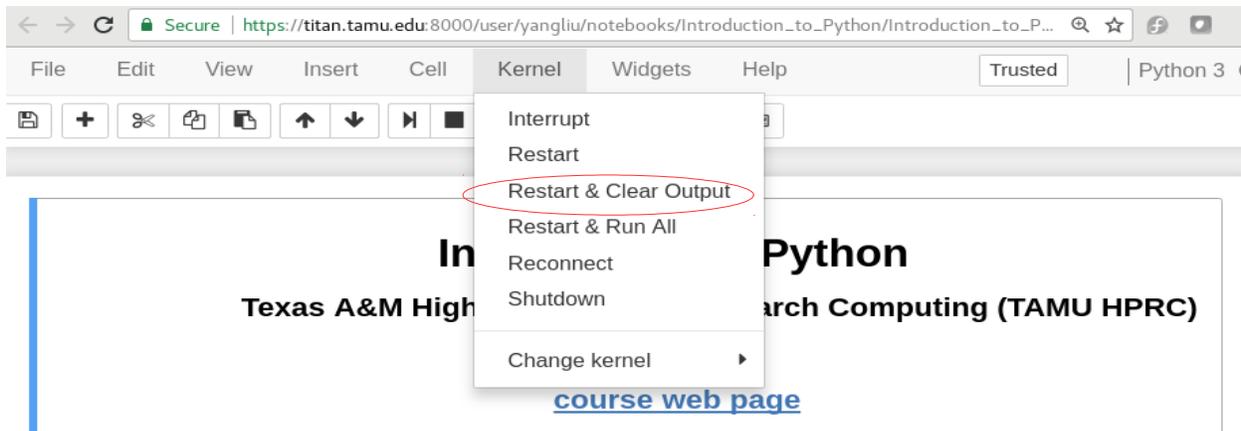
Upload New ↕ ↻

	Name ↑	Last Modified ↑
<input type="checkbox"/>	Introduction_to_Python	5 hours ago
<input type="checkbox"/>	<b>Introduction_to_Scientific_Python</b>	a day ago

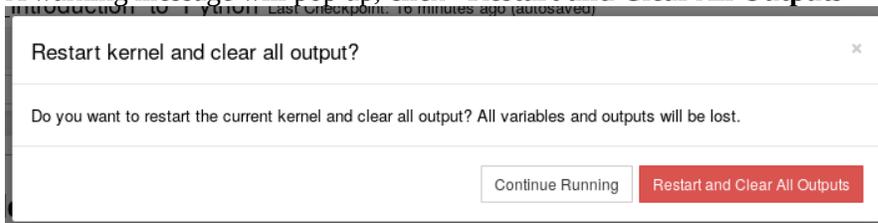
(5) Once inside this subdirectory, you should see more files. Click the file named “**Scientific\_Python.ipynb**” to start the notebook for this course.



- (6) Before class begins, please restart your kernel and clear all outputs.  
To do this, click on “**Kernel -> Restart & Clear Output**”



A warning message will pop up, click “**Restart and Clear All Outputs**”



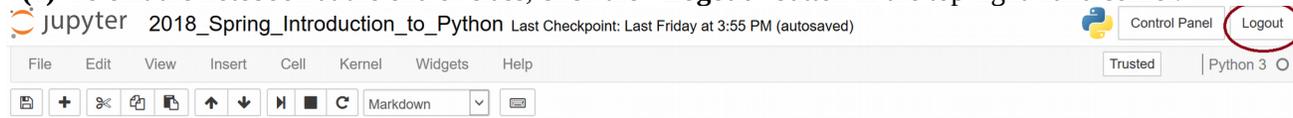
Finally, click the **save icon** on the top left-hand side to save the changes: 

- (8) Once your changes have been saved, you are ready to begin the class.

## Notes

- (1) You may notice that there are three tabs in the Jupyter notebook. For this course, you will only need to use the “**Files**” and “**Running**” tabs. Please do not go into the “**Clusters**” tab for the purposes of this course.

- (2) To exit the notebook at the end of class, click the “**Logout**” button in the top right-hand corner.



## IMPORTANT

The Jupyter notebook used in this class will **NOT** be available after 6:00 PM today. If you would like to save any of the information found on this notebook, please do so before 6:00 PM today.

This can be done by clicking on “**File -> Download As**” and choosing a file format.