# Upcoming HPC Classes

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A hands-on introduction to using the Unix command line interface. Aimed at HPC users with little to no Linux experience. We'll cover sessions 1 and 2 of the "Introduction to Unix/Linux and the HPC environment at NYU" tutorial on the NYU HPC Wiki. The tutorial is available online at https://wikis.nyu.edu/pages/viewpage.action?pageId=53859101

Most of the activities in this tutorial can be completed without an NYU HPC account, but you will get more out of this class if you are already an NYU HPC user. You can apply for an account at https://wikis.nyu.edu/display/NYUHPC/High+Performance+Computing+at+NYU (see "Getting and Renewing Access")
Dumbo(Hadoop) Cluster.

**Class Materials**

**The pre-requisites of this class:**

1. HPC user account is mandatory.
2. Experience using SQL

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### Big Data Tutorial 1: MapReduce

**Date:** Friday, March 30, 2018  
**Time:** 1:30pm - 3:30pm  
**Presenter:** Tatiana Polunina  
**Location:** Bobst Library, Rm. 617, 6th Floor  
**Libraries:** Bobst Library

This class will provide a brief overview of what Hadoop is and the various components that are involved in the Hadoop ecosystem. There will be a hands on showcase for the users on how to use the dumbo(Hadoop) cluster to run basic map-reduce jobs. Various hands on exercises have been incorporated for the users to get a better understanding.

**Class Materials**

**The pre-requisites of this class:**

1. HPC user account is mandatory.
2. The user needs to have a basic knowledge of Unix and Java/python.

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### Introduction to Unix/Linux and the shell

**Date:** Wednesday, April 4, 2018  
**Time:** 2:00pm - 4:00pm  
**Presenter:** Eugene Dedits, Wensheng Deng  
**Location:** Bobst Library, Rm. 617, 6th Floor  
**Libraries:** Bobst Library

A hands-on introduction to using the Unix command line interface. Aimed at HPC users with little to no Linux experience. We'll cover sessions 1 and 2 of the "Introduction to Unix/Linux and the HPC environment at NYU" tutorial on the NYU HPC Wiki. The tutorial is available online at https://wikis.nyu.edu/pages/viewpage.action?pageId=53859101

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### Using Slurm on Prince cluster

**Date:** Friday, April 6, 2018  
**Time:** 2:00pm - 4:00pm  
**Presenter:** Wensheng Deng, Eugene Dedits  
**Location:** Bobst Library, Rm. 617, 6th Floor  
**Libraries:** Bobst Library

A hands-on introduction to using the Slurm. Aimed at HPC users with knowledge of Linux.

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### MATLAB: Beyond Basics

**Date:** Tuesday, April 10, 2018  
**Time:** 12:30pm - 2:00pm  
**Presenter:** Denis Rubin  
**Location:** Bobst Library, Rm. 617, 6th Floor  
**Libraries:** Bobst Library

This tutorial is designed for users who have about a year or two of experience with MATLAB and interested in learning to write more efficient MATLAB code.

For an overview of class materials please visit [this page](#).
**Big Data Tutorial 2: Using Hive**  
Date: Tuesday, April 17, 2018  
Time: 2:00pm - 4:00pm  
Presenter: Tatiana Polunina  
Location: Bobst Library, Rm. 617, 6th Floor  
Libraries: Bobst Library
This tutorial provides a basic understanding of Apache Hive and its usage in the Hadoop eco-system. There will be hands-on examples on how to use Apache Hive and a step by step instructional on how to run Hive jobs using NYU's Dumbo (Hadoop) Cluster.

**Class Materials**

*The pre-requisites of this class:*

1. HPC user account is mandatory.  
2. Experience using SQL

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**Big Data Tutorial 3: Intro to Spark**  
Date: Wednesday, April 25, 2018  
Time: 2:00pm - 4:00pm  
Presenter: Wensheng Deng  
Location: Bobst Library, Rm. 617, 6th Floor  
Libraries: Bobst Library
This tutorial provides a basic understanding of Apache Spark and its usage in the Hadoop eco-system. There will be hands-on examples on how to use Apache Spark and a step by step instructional on how to run Spark jobs using NYU's Dumbo (Hadoop) Cluster.

**Class Materials**

*The pre-requisites of this class:*

1. NYU HPC user account is mandatory.  
2. Experience using Scala/Java.