

Supplemental Table 1. IPPR Course Purpose and Objectives

Course Name	Course Purpose	Objectives
<i>IPPR – Unix Operating System</i>	Provided an overview of critical commands and solutions for working on Unix or Unix-like operating systems (OS) e.g., Linux	<ol style="list-style-type: none">1. Navigate through Unix/Linux environments2. Solve big data science problems by using high performance computing servers3. Create programs, and interpret those written by others, in Unix4. Make informed decisions on informatics server needs in a biomedical setting
<i>IPPR – Python Programming</i>	Provided an overview of essential concepts of software programming using the Python programming language	<ol style="list-style-type: none">1. Think computationally about problem-solving (formulating a problem and expressing its solution for a computer to process)2. Discuss software programming concepts3. Create high quality programs in Python4. Interpret Python programs written by others5. Make informed decisions on programming needs in a biomedical setting
<i>IPPR – Big Data Analysis & Visualization</i>	Building upon the concepts learned in IPPR Python Programming, this course covered advanced data analysis and visualization concepts using popular data science programming python libraries, Pandas and Matplotlib.	<ol style="list-style-type: none">1. Efficiently extract relevant information from Big Data sets for data exploration using Python2. Efficiently extract relevant information from Big Data sets for data exploration using Pandas3. Create data visualizations in Python