**Python Workshops at Fletcher (Round 2)**

**Workshop 1:**

* Introduction to programming in Python:
  + What is it? What can I do with it?
* Download IDLE
  + IDLE basics
* Arithmetic using the shell
* Making Python scripts
* Variables

**Workshop 2:**

* Review variables
  + Variable types
* Printing
* Conditionals
  + Basic, nested, and compound
* User input
  + Variable casting
* While-loops
* Countdown project

**Workshop 3:**

* Lists
* For-loops
* Functions
  + Built-in, defined

**Workshop 4:**

* Review functions
* Files in actions
  + Text files
  + CSV files
* Libraries
  + Random
  + Statistics
* Dictionaries

**Workshop 5:**

* Visualizing data
  + matplotlib
* Programming tools
  + Text editors and IDE's

**Workshop 6:**

* Special advanced topic (based on popular interests)