

CSC 314, Software Installation

This list may be updated as needed throughout the semester.

Overview

In this class we will use Python and Biopython to write bioinformatics programs. In particular, we will work with the following:

1. *Python* (<https://www.python.org/>), a general purpose programming language
2. *Jupyter Notebooks* (<https://jupyter.org/>), a web-based platform for creating, explaining, and sharing code.
3. *Biopython* (<https://biopython.org/>), a set of tools for biological computation in Python.

Installing Python and Jupyter Notebook through the Anaconda Distribution

Install the Anaconda Distribution for your system by following the directions at the following link: <https://www.anaconda.com/distribution/>

The Anaconda Distribution comes with Python and Jupyter Notebook.

Running Jupyter Notebook

Once *Jupyter Notebook* is installed, you can run Jupyter Notebook by double clicking the icon or by typing the following using your machine's **terminal** or **Anaconda Command Prompt**:

```
jupyter notebook
```

For more information, see <https://jupyter.readthedocs.io/en/latest/install.html>

Installing Biopython

Biopython can be installed by typing the following from your **terminal** or **Anaconda prompt**.

```
conda install -c conda-forge biopython
```