

# IS430 – Foundations of Information Processing

## Instructions for Tool Versions, Installation, and Virtual Environments

### Fall 2023

### Instructions

#### Overview

While setting up your computing environment, you will need to install several software products and do some configuration. I have provided tutorial videos for you to follow when doing those activities. In the videos, I install the version of these tools that we were using when I made the recording. Since you may be taking this course in a later semester, you will need to know which versions to install. This document provides that information.

#### Installing Anaconda

Follow my tutorial video to install the latest version of Anaconda and to apply updates. If there is any reason in the current semester why you should not install the latest available version, I will provide a warning and instructions on finding the correct version here:

- No problems expected. Install the latest available version.

#### Creating an Anaconda Virtual Environment

The later portions of my tutorial on installing Anaconda demonstrate how to create a virtual environment for use in this course. The Anaconda virtual environment that you create for this course should always have the following name:

- e4\_trainor\_python\_course

In the current semester, these are the packages that you should include in the virtual environment:

- python (3.10)
- jupyter (the Jupyter metapackage)
- numpy
- pandas
- matplotlib
- seaborn

**PLEASE NOTE:** Because the tutorial video was recorded for a previous semester, it does not show numpy, pandas, matplotlib, and seaborn being installed into the Anaconda virtual environment. Nevertheless, in the current semester, you DO need to install these packages. So, after installing the Jupyter metapackage, you need to use the same process to install each of numpy, pandas, and matplotlib.

## Installing PyCharm Professional

Follow my tutorial video to install the latest version of PyCharm professional. Make sure that you install the Professional version. The Community version and the (now unsupported) Edu version will not be sufficient to do your assignments in this course. If there is any reason in the current semester why you should not install the latest available version, I will provide a warning and instructions on finding the correct version here:

- No problems expected. Install the latest available version.

Last Revised

2023-08-20