Technical Manual

For

SRU Course Scheduling

-Python Update-

Version 1.0

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# Overview

This document provides a detailed description of the worked done within the Python Update addition to the SRU Course Scheduling Project.

# System Requirements

* Operating System: Microsoft Windows 7, 8, or 10 (64 bit)
* Working Installation of Python:
  + Python Editor of choice (this will cover the Anaconda Distribution including Spyder)

# Preparing your system

The following steps are needed in order to run convert the generalized Excel document into readable input for the MATLAB algorithm.

3.1.1 Download the GitHub Project

Download the project from the GitHub repository at <https://github.com/williamjwdavis/SRUCourseScheduling> and unzip it to the desired location.

3.1.2 Download & Installation of Anaconda

Download the Anaconda distribution from <https://www.anaconda.com/distribution/>. Note in the “Advanced Installation Options” menu during the installation process, both “Add Anaconda to my PATH…” and “Register Anaconda as my default…” should be checked.

# 3.2 Setup (Only necessary to view and edit the Python scripts)

Upon completion of both downloads, open Spyder (Windows Key + type “Spyder”). Now click “File-->Open-->”and use the browser to navigate to the location of the unzipped GitHub Project. The Python scripts lie within the pythonUpdate folder, and at this point, any files can be viewed or run in isolation using the Spyder environment.

# Running the Script

To run the script from Spyder, simply navigate to the run.py script and press F5, or click run.

Alternatively, the script can be executed by navigating to the pythonUpdate folder through command prompt, GitBash, or any comparable software. To do so, open the terminal and navigate to the file location, followed by using the command “python run.py”.

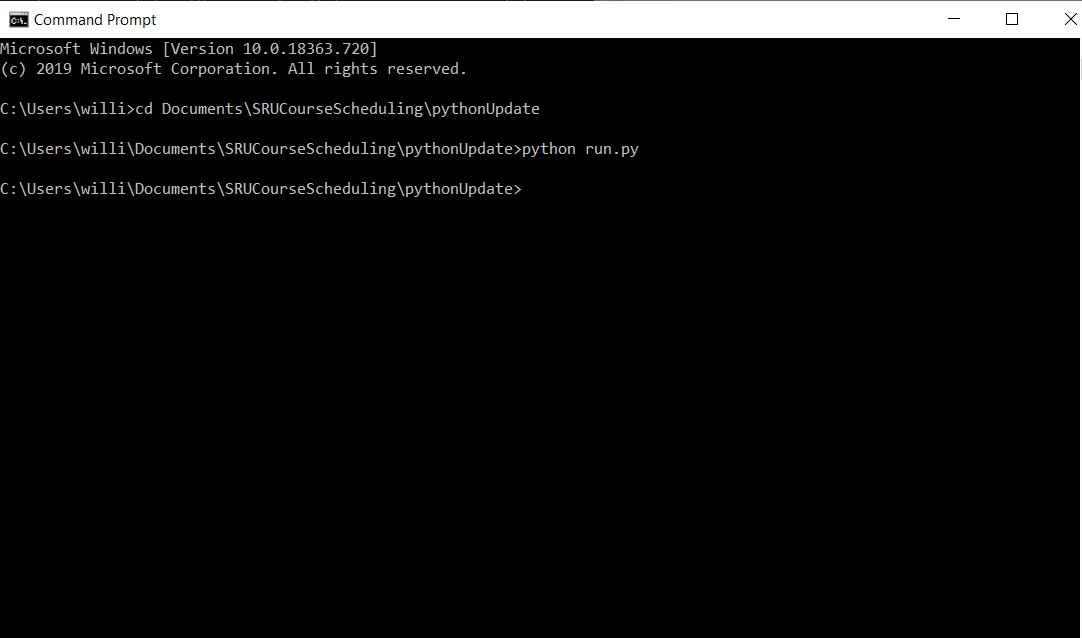


Figure 1- Command Prompt with the command to run the python script

# Explanation of Files and Folders