

C996 – Course 5 “Data Analytics: Programming in Python” (2cr)

- **18hr/cr – 35hr (1wk) – 9pg paper/code (15hr) – 11hr Video Lectures – 6hr Textbook & Labs**
- **Definition:** Overview of python. Powerful data analytics libraries. Screen scraping to capture data off the web. Data wrangling, data collection, exploration, and preparation. Programming.
- **Course Setup / Plan of Action / Installation:** 3.00hr (1 d) – 5/14 : 5/14
 - DONE – 3.00 hr – Prepare my Course Study Plan by reviewing all materials and listing out below
- **Self-Prep Training,** 1.75hr (1 d) – 1.75hr Video – 1/20 : 1/20
 - DONE – 1.75 hr – [LINK](#) – Microsoft, Introduction to Python for Data Science – **Excellent**
- **Instructor’s Recommended Pre-Training,** 1.25hr (1 d) – 0.75hr Video – 0.50hr Textbooks – 5/15 : 5/15
 - DONE – 0.50 hr – [LINK1](#), [LINK2](#) – Fast Track for Python (presentation + powerpoint)
 - DONE – 0.10 hr – [LINK](#) – How to write a CSV using Python (Take5: slides 7, 8, 9)
 - DONE – 0.15 hr – [LINK](#) – Take5 videos to Install Python and take an HTML fly-by (Take5: slides 1:08 – end),
 - DONE – 0.15 hr – [LINK](#) – Python Cheatsheet
 - DONE – 0.35 hr – [LINK](#) – DataCamp tutorial on Sets (initialize and use to dedup list of urls)
- **Course Material (SmartAuthor), Labs & Quizzes, Take Notes,** 6.00hr (2 d) – 2.50hr Video – 3.50hr Books – 5/15 : 5/16
 - DONE – 0.50 hr – [LINK](#) – Unit 1, Module 1 – Intro to Python
 - DONE – 1.75 hr – [LINK](#) – Unit 1, Module 1 – Video: Python Essential Training
 - DONE – 0.50 hr – [LINK](#) – Unit 1, Module 1 – Video: Doing Data Science with Python: Setting up Work Environment (just a few relevant parts, not whole series)
 - DONE – 1.00 hr – [LINK](#) – Unit 2, Module 2 – Python as a Programming Language
 - DONE – 1.25 hr – [LINK](#) – Unit 2, Module 3 – Python for Data Wrangling
 - DONE – 1.00 hr – [LINK](#) – Unit 2, Module 4 – Tools for Data Collection, Exploration and Preparation
- **Supplemental Training to Course Materials,** 7.25hr (2 d) – 6.00hr Training Videos – 1.25hr TextBooks – 5/16 : 5/17
- C996 Tip Sheet – 5.00 hr**
 - DONE – 1.25 hr – [LINK](#) – Learning Python
 - DONE – 1.00 hr – [LINK](#) – Advanced Python
 - DONE – 0.75 hr – [LINK](#) – Python for Statistics: Essential Training
 - DONE – 0.25 hr – [LINK](#) – Efficient Programming in Python (Just watched 5% or so)
 - DONE – 0.75 hr – [LINK1](#), [LINK2](#) – Python: Data-Science-Essential-Training (excellent material, but skipped most b/c not need to complete this course)
 - DONE – 0.50 hr – [LINK](#) – Automate The Boring Stuff (have the book from 7 years ago when coding in Python!)
 - DONE – 0.50 hr – [LINK](#) – Data Science Foundations: Python Scientific Stack
- My Research – 2.25 hr**
 - DONE – 1.25hr – Read relevant parts of book “Web Scraping with Python”
 - DONE – 1.00 hr – [LINK](#) – IBM – Python Basics for Data Science
- **Performance Assessment (Project & Paper),** 15.00hr (1 wk) – 15hr Writing Paper – 5/17 : 5/19
 - DONE – 4.00 hr – Prepare my own rubric (checklist of what must be done, sample code snippets captured during coursework, etc.)
 - DONE – 1.50 hr – Install Environment
 - DONE – 6.00 hr – Coding Project
 - DONE – 3.50 hr – Paper, Finalize, Submit
- **Cancelled**
 - CANCEL – [LINK](#) – Doing DataScience with Python – Web Scraping [Free trial, then purchase...thus avoid]
 - CANCEL – [LINK1](#), [LINK2](#) – Udacity Python Course (WGU login not working, required even for free course...will not create account)
 - CANCEL – [LINK](#) – CodingBat.com Python (test questions to write code, not necessary for final project so skip)
 - CANCEL – [LINK](#) – TutorialsPoint.com Python – too small, web html / pdf only
 - CANCEL – [LINK](#) – Amazon, Smarter Way to Learn Python – purchase paperback book

<https://www.linkedin.com/in/mpierceprofile/>