

2016 Summer Young Data Science for High School

Python

Instructor: Mr. Abdulrahman Aldhaheri and Mr. Sushant Singh

Class: July 11, 2016 ~ July 22, 2016

Class room: South Hall 136

Text: Lab material will be provided (No Textbook)

Contents : This course is an introduction to Computer Science. It will cover all major aspects of Python programming as well as data analytics packages.

Schedule

Lecture	Date	Covered Topics	Comments
0	Preview	Python Setup and Test	
1	July 11	Introduction to Interactive Development using Jupyter Notebook Introduction to Variables, Strings, and Numbers	
2	July 12	Introduction to Lists and Tuples Introduction to Functions	
3	July 13	Controlling Program Flow and Logic using If-Statements Controlling Program Flow and Logic using Loops	
4	July 14	Introduction to Terminal/Consol Applications Python Dictionaries	
5	July 15	Functions Arguments and Returns Object Oriented Programming	
6	July 18	Handling JSON Objects Twitter API Streaming Twitter Data	
7	July 19	Processing Tweet Entity Graph Theory and SNA Introduction to Networkx Library	
8	July 21	Analyzing Twitter Network Introduction to Visualization	