Python Programming

* Why Python Programming
* Data Types and Operators
* Data Structures
* Control Flow
* Function
* Scripting
* Classes

Why Python Programming

* Learn why we program
* Understand how programming in Python is unique

Data Types and Operator

* Understand how data types and operators are the building blocks for programming
* Data types and usage
* Operators and usage

Data Structures

* Types of Data Structures: List, Tuples, Sets, Dictionaries, Compound Data Structures
* Operators: Membership, Identity
* Built-In Functions

Control Flow

* Implement decision-making in your code with conditionals
* Exit a loop, skip an iteration of loop
* Use helpful build-in functions
* List comprehensions

Functions

* Write your own functions to encapsulate a series of commands
* Understand variable scope
* Make functions easier to use with documentation
* Use lambda expressions, iterators and generators

Scripting

* Write and run scripts locally on your computer
* Work with raw input from users
* Read and write files, handle errors, import local scripts
* Use modules from the Python library and third-party

Classes

* Object Oriented programming over procedural programming
* How to use Classes

Bonus

* Git and Github
* Project