

Python Immersive syllabus • June 4th, 2018

Week one	Study Plan
June 4 th 10.00am- 5.00pm	<ul style="list-style-type: none">• Terminal commands• Git versions of common source management concepts and commands• Variables• Data types: strings, integers, floats, lists• For loops• Practical Exercises
June 5 th 10.00am- 5.00pm	<ul style="list-style-type: none">• Functions• Data types: tuples, dictionaries, sets• If statements• While loops• Indexing and slicing• Python's datetime module• Practical Exercises
June 6 th 10.00am- 5.00pm	<ul style="list-style-type: none">• Reading from a File• Making a List from a File• Analyzing a File's content• Regular expressions• Writing to a File• Appending to a File• Practical Exercises
June 7 th 10.00am- 5.00pm	<ul style="list-style-type: none">• Program structure• Args and Kwargs• Exceptions• Assert statements• Working on projects
June 8 th 10.00am- 5.00pm	<ul style="list-style-type: none">• Week 1 Review and Q&A• Working on projects• Weekly Quiz

Week two	Study Plan
June 11 th 10.00am- 5.00pm	<ul style="list-style-type: none">• Big-O notation• Data structures• Binary search• Bubble Sort• Insertion sort• Selection sort• Merge sort• Exercises
June 12 th 10.00am- 5.00pm	<ul style="list-style-type: none">• Creating Objects• Classes and Methods• Relational databases• SQLite• Exercises
June 13 th 10.00am- 5.00pm	<ul style="list-style-type: none">• Python and the Web• Web scraping• Exercises
June 14 th 10.00am- 5.00pm	<ul style="list-style-type: none">• Modular Programming• Working on Project
June 13 th 10.00am- 5.00pm	<ul style="list-style-type: none">• Week 2 Review and Q&A• Resume builder session• Portfolio of code review• Projects presentation

