

Python 2 Syllabus

Enhance the most important topics in Python and make students more proficient in coding independently. their coding skills so that they will be ready for advanced topics.

- 1) Enhance the key topics: **conditional, loops, function, import**.
- 2) Learn the additional important concepts: **list, dictionary, File I/O**.
- 3) Know how to design and implement very **basic algorithms** such as **search, sort, cipher**.
- 4) Know how to **search for examples** and **use APIs**.
- 5) Read code to determine how it works;
- 6) Write code by analyzing how other programs work;
- 7) Test and debug code to make your code work as expected

Topics and Schedule (Python Advanced + Libraries + Applications)

	Topic	Title
0	IDE Setup	Get ready for your Python Adventure
1	Python 1 Review	Designing an App
2	Turtle Review	Turtle Art
3	Turtle Continued	Multi-Turtles
4	Turtle Advanced	Turtle Mastery
5	Strings	String Manipulation
6	Dictionaries and JSON	Improved Code Organization
7	Basic Algorithms	Searching and Sorting
8	File I/O	Saving Our Data with Files
9	Turtle Project	Creating a Game with Turtle Part 1
10	Turtle Project Cont.	Creating a Game with Turtle Part 2
11	Algorithm Challenge 1	Algorithm Challenge 1
12	Algorithm Challenge 2	Algorithm Challenge 2