



Intro to Programming: Python Part 2

Course Syllabus and Parent Lesson Planner

Course Orientation:

Description:

In this course, there are 9 modules that cover everything from interacting with module to building a Python web application.

- Module 1 teaches you how to interact with Python modules.
- Module 2 explains Python module documentation.
- Module 3 discusses working with strings.
- Module 4 teaches you how to manage lists.
- Module 5 will go over data collections.
- Module 6 teaches you how to create and use classes.
- Module 7 discusses storing data files.
- Module 8 teaches you how to send email with Python.
- Module 9 covers building a web app.

This course, upon completion, will give you the skills necessary to be proficient in Python programming for college/work purposes.

Course Length:

As an elective course, we recommend one or two modules / week. Therefore, we feel that this course should take approximately 10 weeks to complete all modules/quizzes, and leave time to study, and take, the final exam. (See Lesson Plan below) [Course Pre-Requisites \(if applicable\):](#)

Intro to Programming: Python Part 1.



Course Requirements:

Computer/tablet/smart phone – Students must have access to a computer/tablet/smart phone with internet access and an internet browser. Simply STEM has been successfully tested using Internet Explorer, Firefox, Chrome, and Safari. In addition, we have tested many versions of smart phone/tablet browsers as well.

Course Requirements (continued):

Internet Access – Although results may vary, based on connection type and speeds, we have tested our online videos on DSL, Satellite, Cable, and cellular connections. Our courses cannot be download and require internet access to view them.

Course Grading: Simply STEM requires all students to pass a quiz following each module with a score of 80% or higher. The student can retake the module if they aren't able to complete the quiz with a passing score. Typically, module quizzes will be 10 questions long. There is a final exam at the end of each course, which is a compilation of all the module quiz questions. The amount of questions for final exams vary. Students are required to pass the final exam with a passing score of 70% to complete the course. Grades can be viewed by viewing the completed courses in the Course Library or by viewing courses still being taken from the dashboard 'In Progress' tab.

Detailed student transcripts and course reports can be provided to you by simply requesting them from our Simply STEM support team at studentsupport@techknowcoa.com. Please find a list of acceptable file upload types below. If your course requires a different file type or your files will exceed the 250 MB limit, please contact us and we will assist you in setting up a Google Drive folder for project file uploads.



.pdf – Document Format	.jpg – Picture Format
.doc – Document Format	.jpeg – Picture Format
.txt – Document Format	.png – Picture Format
.rtf – Document Format	.gif – Picture Format
.pages – Mac Document Format	.bmp – Picture Format
.wav – Audio Format	.htm – Web Format
.mp3 – Audio Format	.html – Web Format
.xls – Excel Spreadsheet Format	.ppt – PowerPoint Format
.xlsx – Excel Spreadsheet Format	.pptx – PowerPoint Format
.numbers – Mac Spreadsheet Format	.mov – Video Format
.avi – Video Format	.psd – Photoshop Format
.wmv – Video Format	.flv – Video Format
.m4v – Video Format	.key – Software Format
.mp4 – Video Format	.3gp – Multimedia Format
.mpg – Video Format	.mpeg – Video Format



Lesson Plan:

Module 1 – Interacting with Modules	Week 1
Module 1 – Quiz	Week 1
Module 2 – Module Documentation	Week 2
Module 2 – Quiz	Week 2
Module 3 – Working with Strings	Week 3
Module 3 – Quiz	Week 3
Module 4 – Managing Lists	Week 4
Module 4 – Quiz	Week 4
Module 5 – Data Collections	Week 5
Module 5 – Quiz	Week 5
Module 6 – Creating and Using Classes	Week 6
Module 6 – Quiz	Week 6
Module 7 – Storing Data Files	Week 7
Module 7 – Quiz	Week 7
Module 8 – Sending Email	Week 8
Module 8 – Quiz	Week 8
Module 9 – Building a Web App	Week 9
Module 9 – Quiz	Week 9
Study for Final Exam	Week 10 – (1-2 Hours)
Final Exam	Week 10 – 1 Hour

