



07/27/2020

Jans Johnson

has successfully completed

Programming for Everybody (Getting Started with Python)

an online non-credit course authorized by University of Michigan and offered through Coursera

A handwritten signature in black ink, appearing to read 'Charles', followed by a horizontal line.

Charles Severance  
Clinical Professor, School of Information  
University of Michigan

COURSE  
CERTIFICATE



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their participation in the course.

WEEK

1



2 hours to complete

## Chapter One - Why we Program?

These are the course-wide materials as well as the first part of Chapter One where we explore what it means to write programs. We finish Chapter One and have the quiz and first assignment in the third week of the class. Throughout the course you may want to come back and look at these materials. This section should not take you an entire week.



7 videos (Total 42 min), 6 readings [SEE ALL](#)

WEEK

2



3 hours to complete

## Installing and Using Python

In this module you will set things up so you can write Python programs. Not all activities in this module are required for this class so please read the "Using Python in this Class" material for details.



6 videos (Total 33 min), 3 readings, 2 quizzes [SEE ALL](#)

WEEK

3



2 hours to complete

## Chapter One: Why We Program (continued)

In the first chapter we try to cover the "big picture" of programming so you get a "table of contents" of the rest of the book. Don't worry if not everything makes perfect sense the first time you hear it. This chapter is quite broad and you would benefit from reading the chapter in the book in addition to watching the lectures to help it all sink in. You might want to come back and re-watch these lectures after you have finished a few more chapters.



4 videos (Total 37 min)

[SEE ALL](#)

WEEK

4



4 hours to complete

## Chapter Two: Variables and Expressions

In this chapter we cover how a program uses the computer's memory to store, retrieve and calculate information.



6 videos (Total 56 min), 1 reading, 3 quizzes

[SEE ALL](#)

WEEK

5



3 hours to complete

## Chapter Three: Conditional Code

In this section we move from sequential code that simply runs one line of code after another to conditional code where some steps are skipped. It is a very simple concept - but it is how computer software makes "choices".



5 videos (Total 57 min)

[SEE ALL](#)

WEEK

6



2 hours to complete

## Chapter Four: Functions

This is a relatively short chapter. We will learn about what functions are and how we can use them. The programs in the first chapters of the book are not large enough to require us to develop functions, but as the book moves into more and more complex programs, functions will be an essential way for us to make sense of our code.



4 videos (Total 35 min)

[SEE ALL](#)

WEEK

7



3 hours to complete

## Chapter Five: Loops and Iteration

Loops and iteration complete our four basic programming patterns. Loops are the way we tell Python to do something over and over. Loops are the way we build programs that stay with a problem until the problem is solved.



8 videos (Total 67 min), 3 readings, 2 quizzes [SEE ALL](#)

Show Less