



# Programming for Everybody (Getting Started with Python)

This course is part of [Python for Everybody Specialization](#)



Instructor: [Charles Russell Severance](#)

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## 7 modules

Gain insight into a topic and learn the fundamentals.

4.8 ★

(232,599 reviews)

## Beginner level

No prior experience required

## Flexible schedule

2 weeks at 10 hours a week

Learn at your own pace

👍 98%

Most learners liked this course

## What you'll learn

- ✓ Install Python and write your first program
- ✓ Describe the basics of the Python programming language
- ✓ Use variables to store, retrieve and calculate information
- ✓ Utilize core programming tools such as functions and loops

## Skills you'll gain

Computational Thinking   Programming Principles   Python Programming   Development Environment   Computer Programming   Software Installation

## Details to know



### Shareable certificate

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### Assessments

9 assignments<sup>1</sup>

[AI Graded see disclaimer](#)



### Taught in English

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## There are 7 modules in this course

This course aims to teach everyone the basics of programming computers using Python. We cover the basics of how one constructs a program from a series of simple instructions in Python. The course has no pre-requisites and avoids all but the simplest mathematics. Anyone with moderate computer experience should be able to master the materials in this course. This course will cover Chapters 1-5 of the textbook “Python for Everybody”. Once a student completes this course, they will be ready to take more advanced programming courses. This course covers Python 3.

[Read less](#)



### Chapter One - Why We Program

Module 1 • 1 hour to complete


[Module details](#) ^

This module contains course-wide materials as well as the first part of Chapter One where we explore what it means to write programs. Throughout the course, you may want to come back and look at these materials. In the third module, we will return to Chapter One and submit the first assignment.

#### What's included

 5 videos  3 readings  1 assignment

[Hide info about module content](#) ^

 5 videos • Total 37 minutes

Welcome to Class - Dr. Chuck

- 

6 minutes

Welcome from the Creator of Python - Guido van Rossum

- 

1 minute

Why Program

- 

11 minutes

Hardware Overview

- 

10 minutes

Python as a Language

- 

7 minutes

 3 readings • Total 18 minutes

Course Overview and Resources

- 

3 minutes

Pre-Course Survey


- 

10 minutes

Industry Voices and Office Hours

- 

5 minutes

 1 assignment • Total 10 minutes

Programming Concepts Check-In

- 

10 minutes

## Installing Python

Module 2 • 1 hour to complete

[Module details](#) ^

In this module you will set things up so you can write Python programs.

### What's included

 1 video    5 readings    1 assignment    1 app item

Hide info about module content ^

#### 1 video • Total 3 minutes

Demonstration: Using the Python Playground

- 3 minutes

#### 5 readings • Total 40 minutes

Important: Using Python in this Class

- 5 minutes

Choosing a Text Editor

- 10 minutes

Installing and Using Python - Windows/macOS

- 10 minutes

Taking Screen Shots for Assignments - Windows/macOS

- 5 minutes

Industry Voices: Eben Upton - Raspberry Pi

- 10 minutes

#### 1 assignment • Total 10 minutes

Installing Python

- 10 minutes

#### 1 app item • Total 60 minutes

Python Code Playground

- 60 minutes

## Chapter One: Why We Program (continued)

Module 3 • 2 hours to complete

[Module details](#) ^

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.

### What's included

 4 videos    2 readings    1 assignment    1 app item

Hide info about module content ^

#### 4 videos • Total 25 minutes

Elements of Python

- 6 minutes

Writing Paragraphs of Code

- 9 minutes

Demonstration: Doing the "Hello World" Assignment

-

5 minutes

Face-to-Face Office Hours: Milan, Italy

- 

3 minutes

 2 readings • Total 20 minutes

Submitting Programming Assignments


- 

10 minutes

Industry Voices: Daphne Koller - Building Coursera

- 

10 minutes

 1 assignment • Total 20 minutes

Quiz: Chapter 1

- 

20 minutes

 1 app item • Total 60 minutes

Assignment: Write Hello World

- 

60 minutes

## Chapter Two: Variables and Expressions

[Module details](#) ^

Module 4 • 3 hours to complete

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

What's included

 7 videos  3 readings  2 assignments  2 app items

Hide info about module content ^

 7 videos • Total 41 minutes

Constants, Reserved Words & Variables

- 

5 minutes

Variable Names and Assignment

- 

7 minutes

Numerical Expressions

- 

6 minutes

Variable Types

- 

13 minutes

Writing Comments in Python

- 

3 minutes

Your First I-P-O Program

- 

3 minutes

Office Hours: Mountain View, CA

- 

0 minutes

 3 readings • Total 22 minutes

Where Is the Worked Exercise for Assignment: Welcome Message?

- 

2 minutes

Worked Exercise: Pay Calculator


- 

10 minutes

Industry Voices: Pooja Sankar - Building Piazza

- 

10 minutes

 2 assignments • Total 30 minutes

Quiz: Chapter 2

- 

20 minutes

Expressions Check-In

- 

10 minutes

 2 app items • Total 120 minutes

Assignment: Welcome Message

- 

60 minutes

Assignment: Pay Calculator

- 

60 minutes

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## Chapter Three: Conditional Code

[Module details](#) ^

Module 5 • 3 hours to complete

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".

### What's included

 4 videos    2 readings    1 assignment    2 app items

Hide info about module content ^

 4 videos • Total 35 minutes

Conditional Statements, Part 1

- 

13 minutes

Conditional Statements, Part 2

- 

7 minutes

Conditional Statements, Part 3

- 

9 minutes

Office Hours: Seoul, South Korea

- 

4 minutes

 2 readings • Total 20 minutes

Worked Exercise: Exercise 3.2


- 

10 minutes

Industry Voices: Massimo Banzi - Arduino

- 

10 minutes

 1 assignment • Total 20 minutes

Quiz: Chapter 3

- 

20 minutes

 2 app items • Total 120 minutes

#### Assignment: Overtime Pay Calculator

- 

60 minutes

#### Assignment: Write Conditional Statements

- 

60 minutes

## Chapter Four: Functions

[Module details](#) ^

Module 6 • 2 hours to complete

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.

### What's included

 4 videos  1 reading  1 assignment  1 app item

Hide info about module content ^

 4 videos • Total 23 minutes

### Using Functions

- 

9 minutes

### Building Functions, Part 1

- 

6 minutes

### Building Functions, Part 2

- 

5 minutes

### Office Hours: Manila, Philippines

- 


1 minute

 1 reading • Total 10 minutes

### Industry Voices: Guido van Rossum - the Early Years of Python

- 

10 minutes

 1 assignment • Total 30 minutes

### Quiz: Chapter 4

- 

30 minutes

 1 app item • Total 60 minutes

### Assignment: Build Functions

- 

60 minutes

## Chapter Five: Loops and Iteration

[Module details](#) ^


Module 7 • 3 hours to complete

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.

### What's included

 7 videos  5 readings  2 assignments  1 app item

Hide info about module content ^

 7 videos • Total 46 minutes

### Loops and Iteration

- 

9 minutes

#### Definite Loops

- 

6 minutes

#### Finding the Largest Value

- 

8 minutes

#### Loop Idioms

- 

8 minutes

#### Finding the Smallest Value

- 

10 minutes

#### Office Hours: Paris, France

- 

0 minutes

#### What's Next - Dr. Chuck

- 

2 minutes

 5 readings • Total 47 minutes

#### Worked Exercise: Exercise 5.1

- 

10 minutes

#### Industry Voices: Guido van Rossum - the Modern Era of Python

- 

12 minutes

#### Please Rate this Course on Class-Central

- 

10 minutes

#### Post-Course Survey


- 

10 minutes

#### Keep Learning With Michigan Online!

- 

5 minutes

 2 assignments • Total 30 minutes

#### Quiz: Chapter 5

- 

20 minutes

#### Loops and Iterations Check-In

- 

10 minutes

 1 app item • Total 60 minutes

#### Assignment: Find the Largest and Smallest Numbers

- 

60 minutes



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#### Instructor

Instructor ratings  **4.8**  (58,083 ratings)



**Charles Russell Severance**

University of Michigan

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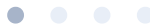
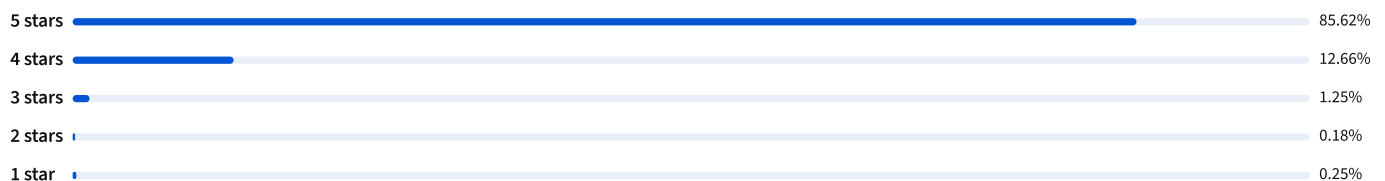
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"To be able to take courses at my own pace and rhythm has been an amazing experience. I can learn whenever it fits my schedule and mood."

★ **4.8** 232,599 reviews

HJ

★ 5 • Reviewed on May 4, 2021

This is the best course I've taken by far! The instructor does well at explaining the concepts and makes it interesting. I really enjoyed this course and am excited to continue forward. Thank you!

SI

★ 5 • Reviewed on Nov 12, 2021

After completion of this course, I am fully excited to learn more courses on it. Here each and every content is very clearly explained. I'm very happy and thanks a lot COURSERA (founders) and team.

SF

★ 5 • Reviewed on Jan 5, 2021

So easy to learn with the videos and tutorials! I have gone through 2 other coding classes and haven't been able to finish because I get stuck and this one has been 100x better in helping me learn :)



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To access the course materials, assignments and to earn a Certificate, you will need to purchase the Certificate experience when you enroll in a course. You can try a Free Trial instead, or apply for Financial Aid. The course may offer 'Full Course, No Certificate' instead. This option lets you see all course materials, submit required assessments, and get a final grade. This also means that you will not be able to purchase a Certificate experience.

What will I get if I subscribe to this Specialization?

When you enroll in the course, you get access to all of the courses in the Specialization, and you earn a certificate when you complete the work. Your electronic Certificate will be added to your Accomplishments page - from there, you can print your Certificate or add it to your LinkedIn profile.

Is financial aid available?

Yes. In select learning programs, you can apply for financial aid or a scholarship if you can't afford the enrollment fee. If fin aid or scholarship is available for your learning program selection, you'll find a link to apply on the description page.

More questions

Visit the learner help center

Financial aid available, [learn more](#)

<sup>1</sup> Some assignments in this course are AI-graded. For these assignments, your data will be used in accordance with [Coursera's Privacy Notice](#).

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