

# Using Python With Excel

GoSkills online course syllabus

**Skill level**

Beginner

**Lessons**

17

**Pre-requisites**

No prior experience needed

**Video duration**

56m

**Estimated study time**

56m 47s

**Instructor**

George Mount

## Introduction

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### 1 Managing Excel with Python

Excel's limitations show themselves whenever you need to work with large amounts of data and perform the types of complex operations necessary to compile key analytics.

## Python and Pandas

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### 2 Jupyter Notebooks basics

If you don't think code can be beautiful, you have to check out Jupyter Notebooks.

### 3 Introducing the Python pandas library

Pandas is a Python library that provides powerful data analysis features.

### 4 Loading and saving data with pandas

When working with Excel in Python, you have to deal with large amounts of data.

### 5 Viewing and inspecting data with pandas

When working with pandas, manipulating the DataFrame is key to getting what you want out of the data.

### 6 Manipulating data with pandas

As you manage datasets you'll need more methods to organize, compare, and sort our data.

### 7 Working with dates and times in pandas

The name "pandas" isn't just for cute animals...

**8** Using openpyxl with workbooks  
Workbooks are a core component to navigating data in Excel.

**9** Selecting cells, rows, and columns  
When working within an Excel document, accessing your values and navigating through the spreadsheet is one of the most used and basic tools.

**10** Adding workbook formatting  
When presenting large sets of data to others, it is important to format it in such a way that's readable and understandable.

**11** Creating named ranges and tables  
Just like Python, Excel works best when its data components are named properly.

## Working with Reports

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**12** Managing multiple sheets  
Managing multiple sheets is a common occurrence in Excel.

**13** Working with large worksheets  
Openpyxl is slow when working with extremely large datasets.

**14** Conditional formatting  
Excel reports often include conditional formatting which conveniently add visual cues to data tables.

**15** Creating Excel plots in Python  
Excel charts are familiar to almost every spreadsheet user. After watching this video, you'll be able to create dynamic Excel charts using openpyxl.

**16** Exporting Python plots to Excel  
Some charts are difficult or perhaps impossible to create in Excel.

## Conclusion

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**17** Next steps  
Thank you for watching this course!