

# Code Louisville - January 2021

## Python Syllabus

### Summary of Requirements for Completion of Code Louisville

The following is a list of the requirements for successfully completing Code Louisville.

#### 1. Complete the Treehouse Track

This includes completing all quizzes and challenges and earning all badges. You will be added to the **Code Lou - Python** track which contains all the courses. You can also click the links in this document below to go directly to the courses. If you do not see the course added in Treehouse, please contact a staff member to be added. **You should complete the Treehouse courses by your meetup day**, as the topics covered may be discussed by your mentors.

#### 2. Complete a portfolio project

This project must be completed by **Friday, April 2nd at noon** and must fulfill every requirement listed in the Project Requirements document. The project requirements and other Code Louisville information can be found on the [Student Resources Wiki](#). You should show your project to a mentor well before the due date to ensure requirements are properly met. A link will be sent out via Slack in the last two weeks of class. **You will 'turn-in' your project by completing that survey and providing your GitHub link to your project in the last week of class.**

#### 3. Attend a minimum of 2 tech events

Check [LouisvilleTech.org](https://louisvilletech.org) and the #tech-events channel in Code Louisville Slack for a list of eligible events or check with Code Louisville staff if another event you're interested in isn't listed. [To submit your events, complete this form](#)

To count as a tech event, the focus of the event needs to either a) build your technical skill set or b) let you network with local tech professionals. If there is an event you are interested in, but are not sure if it meets either of these criteria, please reach out to Emily on Slack @ Emily Sullivan

While they cover valuable information, events focused on impostor syndrome, job readiness, or "ask a recruiter/hiring manager" events, will not count towards your two tech events. We still encourage you to attend these events for your own benefit.

*During the COVID-19 pandemic, virtual/remote/online events are allowed.*

#### 4. **Attend your weekly meetups (class)**

You are highly encouraged to attend every single week, but **more than 3 absences** will result in being removed from the program. You must stay for the duration of class, leaving early may result in an absence. An option to switch nights and attend class a different day of the week may be available as well. Attendance will be taken virtually through Zoom - it is your responsibility to ensure your attendance is counted.

### **Additional Program Info and Policies**

Students can find program policies, links to the syllabus, project requirements, and other student resources at our Code Louisville wiki site.

<https://sites.google.com/codelouisville.org/code-louisville-wiki/program-info/policies>

### **Class Expectations**

Weekly class meetups are offered online on the night selected prior to orientation. These meetups will be held via Zoom and a link for your specific class night will be provided in a separate email and over Slack.

Zoom requires you to have a laptop or desktop computer. Chromebooks and Tablets usually will work as well. A microphone and camera are needed to communicate with your mentors and classmates. You will also need a stable internet connection. You are expected to be on camera and to engage with the mentors and other students. Come prepared with questions about the Treehouse assignments, your project, etc.

Class is **not** a lecture where you watch/listen for 2 hours. There will be some activities and presentations, but each week you are expected to bring questions and work on your projects during class time. Mentors - who are all *volunteer* software development professionals - will be available to answer questions and guide you on your projects.

### **Additional Resources**

If you have a barrier that prevents you from being able to participate in or succeed in your class, please let us know. We have connections with Kentuckiana Works (our parent organization) and with other organizations that may be able to help you by providing supportive services. We are here to help you succeed, so please reach out to us.

### **Code of Conduct**

All students and mentors are expected to conform to the Code of Conduct (on Zoom and Slack), which can be found here:

<https://docs.google.com/document/d/1ZIVRab0JpicfOgCNgoCAZySz71VP2g8p91R8jPMhN8s/edit?usp=sharing>.

## Zoom Link

The link below is for when it's time for your class. Please join prior to 6pm as the mentors will begin right around 6:00. Attendance will be taken, so we ask that you use your real name for your Zoom login name to assist with this. The below link will become active a few minutes before 6pm.

**Use this link to join your class:**

<https://us02web.zoom.us/j/82808832072?pwd=Tys4bWdNb3ViaGwvL2VSOUJvSHJYZz09>

**Meeting ID:** 828 0883 2072

**Password:** 978117

The above link **should** automatically log you in. However, if prompted, you may need to enter the Meeting ID and Password.

*If you have not used Zoom before, you can go to this URL and test that your camera and microphone work: <https://zoom.us/test> . A camera and mic is not required for orientation, but it will be required for class nights.*

## Weekly Schedule

Week	Dates	Treehouse Assignments (try and complete by day of class that week)
0	1/4 - 1/7	No class meetups, but Treehouse is assigned!
First Treehouse videos are assigned. <b>Look at each week below to see what you should have completed by class time.</b>		
1	1/11 - 1/14	<a href="#">Python Basics</a>  <b>Optional/Recommended:</b> <a href="#">Setting up a Local Python Environment (Windows)</a> <a href="#">Setting up a Local Python Environment (Mac)</a>
First night of meetups. Zoom information is above.  Your mentors will summarize the course, get to know everyone, and get your environment set up to start programming.		

2	1/18 - 1/21	<a href="#">Practice Input and Output in Python</a> <a href="#">Introducing Lists</a> <a href="#">Practice Writing Loops in Python</a> <a href="#">Practice Comparisons in Python</a> <a href="#">Practice Basic Math Calculations in Python</a> <a href="#">Jupyter Notebooks (workshop)</a>
<p><b>***NO CLASS ON MONDAY***</b> There will be no classes on Monday due to the MLK Day holiday. Treehouse is still assigned. Any missed classroom content will be covered next week. Other class nights meet as-scheduled.</p> <p>Git and GitHub are critical tools and will be used regularly in this class. You need to practice creating and updating repositories until it's easy for you. Ask for mentor help if you need it!</p>		
3	1/25 - 1/28	<a href="#">Practice Using Strings and Lists in Python</a> <a href="#">Practice Creating and Indexing Lists</a> <a href="#">Introducing Tuples</a> <a href="#">Functions, Packing, and Unpacking</a> <a href="#">Practice Creating and Using Functions in Python</a>
4	2/1 - 2/4	<a href="#">Python Sequences</a> <a href="#">Introduction Dictionaries</a> <a href="#">Introducing Dunder Main</a>
<p>Pick a project idea to work on and start bringing it to class. Practice committing the project and changes to GitHub</p>		
5	2/8 - 2/11	<a href="#">Object-Oriented Python</a>
<p>Don't forget to attend your two networking/tech events. The link to the form is on the first page of the syllabus.</p>		
6	2/15 - 2/18	<a href="#">Write Better Python</a> <a href="#">Dates and Times in Python</a> <a href="#">Regular Expression in Python</a>
<p>You should have started your project by now and be incorporating some of the things learned in Treehouse into it</p>		
7	2/22 - 2/25	<a href="#">Python File I/O</a> <a href="#">Python for File Systems</a> <a href="#">CSV and JSON in Python</a>

8	3/1 - 3/4	<a href="#">Python Testing</a> <a href="#">Python Comprehensions</a> <a href="#">Python Decorators</a> <a href="#">Python Type Hinting</a>
Last week of assigned videos! Some optional, but recommended videos are below if you want to learn some other cool things you can do		
9	3/8 - 3/11	<b>Optional Courses:</b> <a href="#">PyCharm</a> <a href="#">Using Databases in Python</a>
<p>The above courses are all <b>optional</b> and will not be tracked by Code Louisville for purposes of completion. They are recommended though, so you can include some more advanced concepts into your projects.</p> <p>Use this time to complete any remaining videos you have left and focus on your project.</p>		
10	3/15 - 3/18	No more Treehouse assigned - work on your projects!
Reminder again to get your two networking events in before the end of the session!		
11	3/22 - 3/25	
<p>Test your project with someone else's computer to ensure you haven't missed anything that will prevent it from passing the requirements.</p> <p>Have a mentor review your project to ensure it meets the requirements.</p>		
12	3/29 - 4/1	Last week! Projects are due by Friday
<p>All Project due no later than April 2nd at 12:00 (noon), sharp. Complete the form emailed out to turn in your project.</p> <p>Treehouse must be complete as well and networking events must be reported. The link to the form is on the first page of the syllabus.</p>		
13+	April	Job Readiness Workshops and 1-on-1's - see below

## Post Graduation: Job Readiness Workshops!

Dates will be announced closer to the end of the session but will be offered in the weeks following graduation with multiple options to choose from.

- **Where:** Info and Zoom links to be sent out in advance of the workshops
- **When:** 6-8pm, varying days will be offered to accommodate your schedules

- **What to bring:** laptop, current digital resume, and have a LinkedIn account set up
- **What we'll do:** Teach you everything we know based on techniques that actually work to support your job hunt!

## **In-person 1-on-1's with Student Success Coordinator**

**To be held after completion of a Job Readiness Workshop**

### **★ 1 on 1 Review**

- **Where:** Virtual meetings with Student Success Coordinator
- **When:** In the weeks following your job hunt seminar, you will have an option for a 30 minute meeting with our Student Success Coordinator
- **What to bring:** You should be prepared to share your thoughts on your job aspirations. We will also go over your resume, a sample cover letter, and LinkedIn profile. You should come with questions and discussion topics about your job hunt, resume, or other career questions or else the meeting might be very short!
- **What we'll do:** A brief review and recommendations for your job hunt materials, some interview questions if you want them, and next steps in your learning and career path.