**Code Louisville**

**Python/SQL Syllabus - September 2018**

**Summary of Requirements for Completion of Code Louisville**

The following is a list of the requirements for successfully completing Code Louisville.  If any of the items are not completed, you will not be considered a graduate of this course.  Please be sure to ask any questions of Code Louisville staff if you have any concerns about completing the requirements.

1. Complete all Treehouse courses listed in each week below.  This includes completing all quizzes and challenges, and earning all badges that Treehouse awards for completion. You will be added to the **Code Lou Python - Sept 2018** track in Treehouse which contains all required courses for you to follow along with, or you can click the links in the 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 are strongly encouraged to complete the Treehouse courses by your meetup day**, as the topics covered may be discussed by your mentors. This may require starting the curriculum earlier than it is assigned.
2. Complete your personal project.  This project must be completed by **Friday, November 16th at noon** and must fulfill every requirement listed in the Project Requirements document.  The requirements and other Code Louisville information can be found on the [Student Resources Wiki](https://github.com/CodeLouisville/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 this survey and providing your GitHub link** to your project.
3. Attend a minimum of 2 tech events where you meet others involved in technology. Check [LouisvilleTech.org](http://louisvilletech.org/) for a list of eligible events or check with Code Louisville staff if another even you’re interested in isn’t listed.  After completing the event, message @shannonsiders on Slack or email her ([shannon@codelouisville.org](mailto:shannon@codelouisville.org)) and state which event you attended.
4. Attend your weekly meetups.  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. If you need to leave early, please speak with staff prior to the start of class. An option to switch nights and attend class a different day of the week may be available.

**Week 1: Monday, August 27 - Sunday, September 2**

**Everyone should join their Slack channel, #python-mon-sept-2018 or #python-tues-sept-2018**

**No in-person meetups yet but Treehouse is already assigned!**

**Treehouse:**

* **This course will assume familiarity with all of the below.**  All of these should have been completed during the Front-end Web Development course:
  + [**Introduction to HTML and CSS**](https://teamtreehouse.com/library/introduction-to-html-and-css)(and other HTML and CSS courses)
  + [**Console Foundations**](https://teamtreehouse.com/library/console-foundations)
  + [**Git Basics**](https://teamtreehouse.com/library/git-basics)
  + [**GitHub Basics**](https://teamtreehouse.com/library/github-basics)

**Assigned Videos:**

* [**Python Basics**](https://teamtreehouse.com/library/python-basics-3)
* [**Introduction to Anaconda (workshop)**](https://teamtreehouse.com/library/introduction-to-anaconda)
* [**Jupyter Notebooks (workshop)**](https://teamtreehouse.com/library/jupyter-notebooks)

**Strongly Recommended but not required:** (they’re short)

* [**Setting Up a Local Python Environment (Windows)**](https://teamtreehouse.com/library/setting-up-a-local-python-environment-windows)
* [**Setting Up a Local Python Environment (Mac)**](https://teamtreehouse.com/library/setting-up-a-local-python-environment-mac)

**Week 2: Monday, September 3 - Sunday, September 9**

**\*\* No MONDAY Meetup due to Labor Day\*\***

If you are on Monday night classes, the first meetup is canceled due to the holiday. Any material covered this week will be covered next week in class but Treehouse videos are still assigned. This will not count as an absence if you are assigned to Monday night classes. Other nights will meet as usual. Due to being the first week of class with every seat booked, we cannot allow you to come to the other night of class this week.

**Assigned Treehouse Videos:**

* [**Introducing Lists**](https://teamtreehouse.com/library/introducing-lists)
* [**Python Collections**](https://teamtreehouse.com/library/python-collections-2)

**In-Person:**

* **First Meetups!**
* **Where:** The iHub, immediately around the corner from Code Louisville: **204 S Floyd St, Louisville, KY 40202**.
* Due to high demand for back-end classes, we have rented the iHub next door to Code Louisville for the evenings of your class. You are welcome to stop by Code Louisville right around the corner anytime you need to speak with us!
* Paid parking at meters (free after 6:00 p.m.!), on Floyd Street or Market Street, or [anywhere in yellow on this parking map](https://drive.google.com/file/d/0B28qs3pVLuXSOU1UYmlVa1pLYVE/view?usp=sharing).
* **When:** 6:00 - 8:00 p.m.
* **What to bring:** laptop, questions
* **What we’ll do:** Introductions, summarize data analytics, and get everyone’s environments setup for future development

**Week 3: Monday, September 10 - Sunday, September 16**

**Assigned Treehouse Videos:**

* [**Object-Oriented Python**](https://teamtreehouse.com/library/objectoriented-python-2)
* [**Write Better Python**](https://teamtreehouse.com/library/write-better-python)

**Networking Reminder:**

* Don’t forget you have to attend **TWO tech events** by the end of the session. Check [louisvilletech.org](http://louisvilletech.org) for a good list of options and don’t forget to report to @shannonsiders on Slack or [shannon@codelouisville.org](mailto:shannon@codelouisville.org) that you’ve attended.

**Week 4: Monday, September 17 - Sunday, September 23**

**Assigned Treehouse Videos:**

* [**CSV and JSON in Python**](https://teamtreehouse.com/library/csv-and-json-in-python)
* [**Regular Expression in Python**](https://teamtreehouse.com/library/regular-expressions-in-python)
* [**Python File I/O**](https://teamtreehouse.com/library/writing-to-files)

**Week 5: Monday, September 24 - Sunday, September 30**

**Assigned Treehouse Videos:**

* [**Python for File Systems**](https://teamtreehouse.com/library/python-for-file-systems)
* [**SQL Basics**](https://teamtreehouse.com/library/sql-basics)

**Week 6: Monday, October 1 - Sunday, October 7**

**Assigned Treehouse Videos:**

* **[Modifying Data with SQL](https://teamtreehouse.com/library/modifying-data-with-sql)**
* [**Reporting with SQL**](https://teamtreehouse.com/library/reporting-with-sql)

**Project:**

* You should have your project idea by now.  Continue to

document features, plan out what it will look like.  Use class

time to talk to mentors about your idea and verify it’s a good

project to work on.

**Networking:**

* Don’t forget you have to attend TWO tech events during the 12

weeks.  Check [LouisvilleTech.org](http://louisvilletech.org) for a good list of options!

Message @shannonsiders or email her to get credit for

attending.

**Week 7: Monday, October 8 - Sunday, October 14**

**Assigned Treehouse Videos:**

* [**Querying Relational Databases**](https://teamtreehouse.com/library/querying-relational-databases)
* [**Creating and Modifying Database Tables**](https://teamtreehouse.com/library/creating-and-modifying-database-tables)
* [**Data Analysis Basics**](https://teamtreehouse.com/library/data-analysis-basics-making-decisions-with-data/upcoming)
* [**Introduction to Data Visualization with Matplotlib**](https://teamtreehouse.com/library/introduction-to-data-visualization-with-matplotlib)

**Project:**

* Try and find some time to talk with a mentor about your project

if you haven’t already, just to verify it’s appropriate size and

difficulty for the course.  Start your development if you haven’t

already!  Remind yourself of the project requirements on the

[Student Resources Wiki](https://github.com/CodeLouisville/Student-Resources/wiki)!

**Week 8: Monday, October 15 - Sunday, October 21**

**RECOMMENDED Treehouse Videos:**

These videos are considered optional but **highly** recommended.  They will not be counted for purposes of completing the Treehouse track for graduation.

* [**Introduction to Big Data**](https://teamtreehouse.com/library/introduction-to-big-data)
* [**Introduction to numpy**](https://teamtreehouse.com/library/introduction-to-numpy)

**Project:**

* Keep working on your project!  Make sure to commit updates to

GitHub regularly!  Don’t forget about the [Student Resources](https://github.com/CodeLouisville/Student-Resources/wiki)

[Wiki](https://github.com/CodeLouisville/Student-Resources/wiki)!

**Week 9: Monday, October 22 - Sunday, October 28**

**Project:**

* Your project is due in THREE WEEKS! Keep working on your project!  Make sure to commit updates to GitHub regularly! Don’t forget about the [Student Resources Wiki](https://github.com/CodeLouisville/Student-Resources/wiki)!

**Week 10: Monday, October 29 - Sunday, November 4**

**Treehouse:**

* No new assigned videos, use this time to finish the track and

make progress on your project

**Networking:**

* Don’t forget you have to attend **TWO networking events** during the 12 weeks.  Check [LouisvilleTech.org](http://louisvilletech.org) for a good list of options!

**Project:**

* Keep working on your project!  Make sure to commit updates to GitHub regularly
* Your projects will be your number one tool to getting a job, so make it something great!
* **Double check the project requirements! Ask a mentor to confirm you’ve got a project that meets them**
  + These can be found on the [Student Resources Wiki](https://github.com/CodeLouisville/Student-Resources/wiki/Project-Requirements).
* Remember, your projects on GitHub are your number one tool for getting a job!

**Week 11: Monday, November 5 - Sunday, November 11**

**Treehouse:**

* No new assignments.  Use this time to review any topics, do the optional videos from last week, and work on your project!

**Networking:**

* Don’t forget you have to attend **TWO networking events** during the 12 weeks.  Check [LouisvilleTech.org](http://louisvilletech.org) for a good list of options!

**Project:**

* Your project is due NEXT WEEK!  Keep working on your

project!  Make sure to commit updates to GitHub regularly!

**Week 12: Monday, November 12 - Friday, November 16**

**Projects:**

* **Your project is due on GitHub no later than Friday, November 16th at noon and the survey/turn-in form completed!**

The form will be linked via Slack at least 1 week in advance and will

be disabled right at noon. You can complete the form even before you

are done with your project and continue to work on it after.

Do some final testing, preferably with another student on their machine, before finalizing your project! Make sure your solution runs on another computer or your project reviewer may not be able to get it to run!

Revisit the project requirements on the [Student Resources Wiki](https://github.com/CodeLouisville/Student-Resources/wiki).

**Post Graduation: Job Hunt Workshops!**

**Required if you have not completed one before!**

**Dates will be announced closer to the end of the session but will be offered in the weeks following graduation.**

**In-Person:**

* **Workshops (Required if you have not attended one before)**
  + **Where:** Code Louisville space
  + **When:** Varying times 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 Reviews with Student Success Coordinator**

**Dates will be announced closer to the end of the session but will be offered in the weeks following graduation.**

* **1 on 1 Review (Optional, but highly valuable and encouraged!)**
  + **Where:** Code Louisville
  + **When:** In the weeks following your job hunt seminar, you will have an option for an hour-long one-on-one meeting, with varying times offered to accommodate your schedules.
  + **What to bring:** You will receive this information along with the registration email. We will go over your resume, a sample cover letter, and LinkedIn profile.
  + **What we’ll do:** A brief review and recommendations for your job hunt materials, some interview questions, and next steps in your learning and career path.