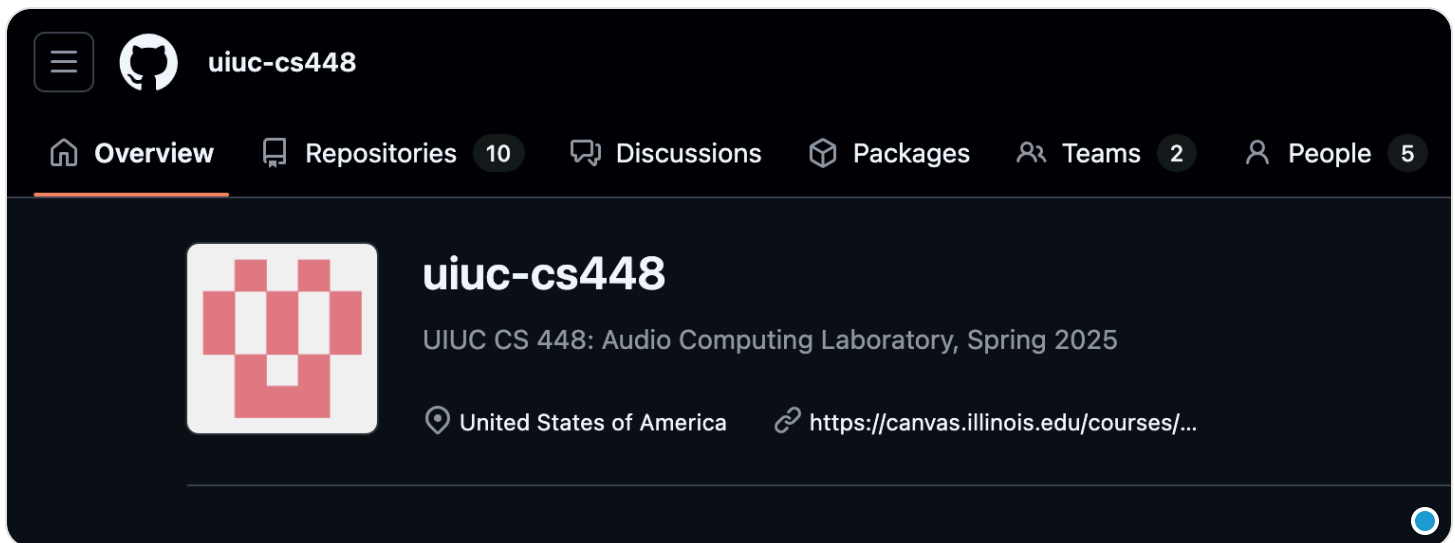


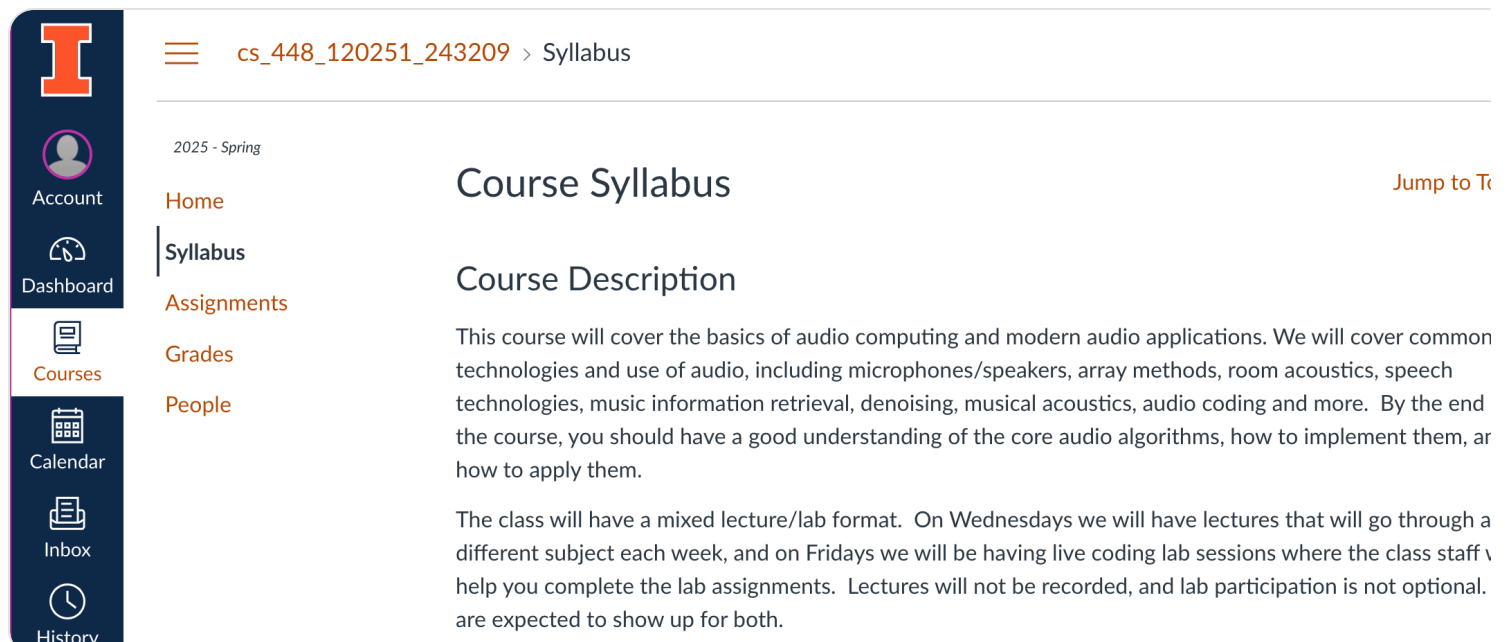
# 448 Intro for Students

Welcome to Audio Computing Lab! We will be using GitHub Classroom to host our assignments and online discussions. You will receive an invitation to join the GitHub Classroom, which will give you access to all assignments during the semester. You will also receive an invitation to join the course's [GitHub organization page](#), which is where all online discussion will take place.



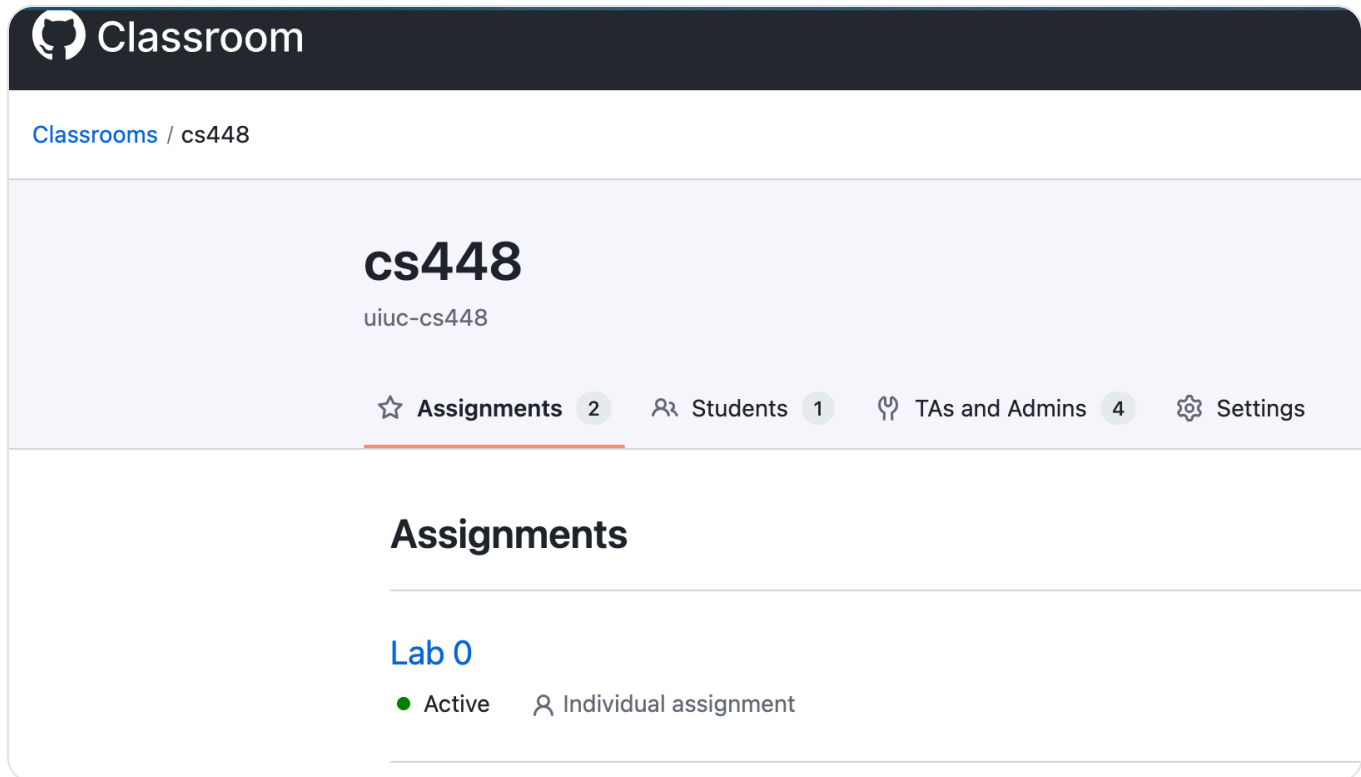
The screenshot shows the GitHub organization page for 'uiuc-cs448'. At the top, there's a navigation bar with icons for Overview, Repositories (10), Discussions, Packages, Teams (2), and People (5). Below this, the organization's profile is displayed with a red and white checkered logo. The name 'uiuc-cs448' is prominently shown, followed by the description 'UIUC CS 448: Audio Computing Laboratory, Spring 2025'. The location is listed as 'United States of America' and a link to the Canvas page is provided: 'https://canvas.illinois.edu/courses/...'. A blue circle icon is visible in the bottom right corner of the screenshot.

Lastly, lecture slides are available through modules on the [Canvas](#) page, along with the course syllabus and your lab grades. You really only need Canvas to check on grades and download lecture slides- everything else can be found through the GitHub organization and Classroom.



The screenshot displays the Canvas LMS interface. On the left is a dark blue sidebar with the University of Illinois 'I' logo and navigation links: Account, Dashboard, Courses (highlighted), Calendar, Inbox, and History. The main content area shows the breadcrumb 'cs\_448\_120251\_243209 > Syllabus'. Below this, a list of navigation links includes Home, Syllabus (highlighted), Assignments, Grades, and People. The page title is 'Course Syllabus' with a 'Jump to Table of Contents' link on the right. Under the 'Course Description' heading, the text states: 'This course will cover the basics of audio computing and modern audio applications. We will cover common technologies and use of audio, including microphones/speakers, array methods, room acoustics, speech technologies, music information retrieval, denoising, musical acoustics, audio coding and more. By the end the course, you should have a good understanding of the core audio algorithms, how to implement them, and how to apply them.' A second paragraph follows: 'The class will have a mixed lecture/lab format. On Wednesdays we will have lectures that will go through a different subject each week, and on Fridays we will be having live coding lab sessions where the class staff will help you complete the lab assignments. Lectures will not be recorded, and lab participation is not optional. Students are expected to show up for both.'


## Assignments

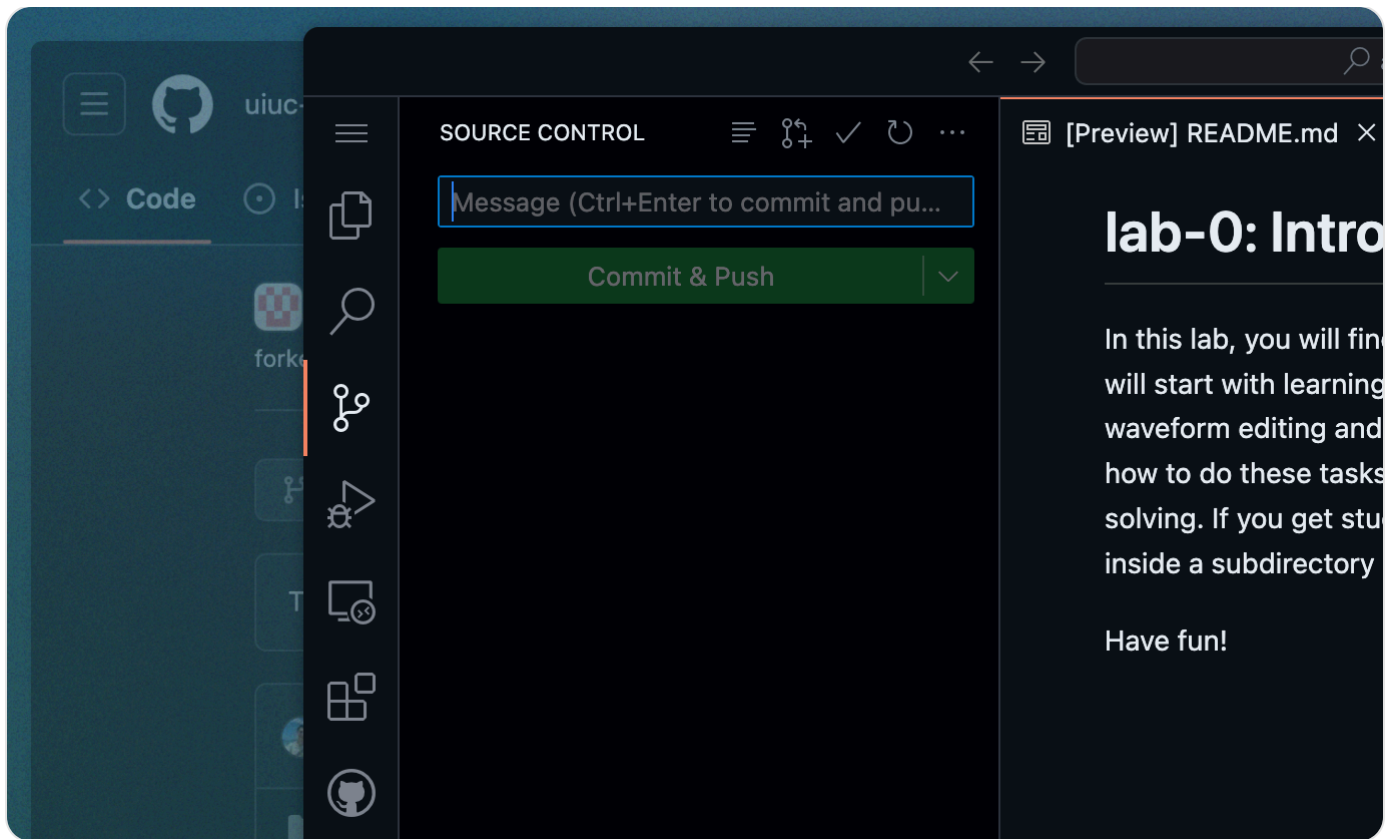


The screenshot shows the GitHub Classroom interface for a classroom named 'cs448'. At the top, there's a dark blue header with the GitHub logo and the word 'Classroom'. Below this, a breadcrumb trail shows 'Classrooms / cs448'. The main header area is light blue and contains the classroom name 'cs448' and the repository name 'uiuc-cs448'. Below the header, there's a navigation bar with four items: 'Assignments' (with a star icon and a count of 2), 'Students' (with a person icon and a count of 1), 'TAs and Admins' (with a person icon and a count of 4), and 'Settings' (with a gear icon). The 'Assignments' tab is currently selected and highlighted with a red underline. Below the navigation bar, the 'Assignments' section is titled 'Assignments' and contains a list of assignments. The first assignment is 'Lab 0', which is marked as 'Active' with a green dot and is an 'Individual assignment' as indicated by a person icon.

To access assignments, visit GitHub Classroom and checkout the available labs. If you've worked with GitHub repos before and have a preferred IDE, working on labs will feel familiar. You will be provided a cloned repository of the lab, and your most recent push to this repository will be your "submission" for the lab.

## The Web Editor

If the phrases "github repositories" and "git add/commit/push" are new to you, don't worry, (*until you get a job, then you should worry*). From your cloned repository page on GitHub, pressing  will open a VS Code web editor, which will let you write and run code from your browser.



In the web editor, you can commit and push your code to your repo by opening **Source Control** on the left-hand side, writing a commit message and clicking **Commit & Push**. You **MUST** do this in order for your work to count in your submission, otherwise you risk not having your work submitted!

## Grading

Grading is done manually by the course staff once a lab deadline has passed. We will evaluate your code and results for each question on a scale from 0-3 depending on whether or not you were able to complete the question. Once your lab has been graded, you will see a score added to your lab's Jupyter notebook file, and the same score will also be added to Canvas in the **Grades** tab.

## Extensions

The course staff understands that surprises happen, and sometimes students need more time due to outstanding situations. While we don't accept late submissions, if you feel like you are in need of an extension, don't hesitate to reach out privately to course staff.

## Other Assignment Tidbits:

- **Do NOT make pull requests to your lab repositories!** These requests will make your lab code visible to the entire class, and submitting public code to a lab is a FAIR violation.

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## Discussions

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All public discussions will take place in our organization page under **Discussions**. This is also where we'll post course announcements, so make sure to keep notifications on for these!

Discussions can include  $\LaTeX$ , pictures of plots, and audio to help clarify your thoughts. **For audio, you will need to convert your files to .mov (add .mov to the end of your audio file) in order for playback to work.**

## Private Discussions/Questions

We understand that students might have private questions that they don't want shared with the rest of the class. Here's how you can reach us about those:

- For lab-specific private questions, simply **create an Issue** under the Issues tab of your repo, and tag the course staff with `@uiuc-cs448/staff`, or individual members of staff by username (`@psmaragdis`, `@emathh`, `@dbralios`, `@quinnouyang`).

- For more general questions, (course-related or something outside the scope of a lab or week's content), add issues to your **Lab 0 repository** and tag course staff. If you forget and put these questions under a different

lab, don't worry! We'll still be notified, but keeping these questions in your Lab 0 makes them easier to find later.

### **Other Discussion Tidbits:**

- Course staff will be staying up to date with GitHub discussions and will try to have your questions answered as soon as humanly possible.
- If you *really* have to reach out over email, please CC one of the TAs (Evan at [evanmm3@illinois.edu](mailto:evanmm3@illinois.edu), Dimitris at [dbralios@illinois.edu](mailto:dbralios@illinois.edu))- we'll try to get to your email as quickly as we can.
- If you specifically need to talk with Prof. Smaragdis, don't hesitate to ask him before/after/during lecture or lab sessions.