

Welcome to CSE 121!

Miya Natsuhara

Autumn 2023

Music: [121 23au Lecture Tunes](#) 



[sli.do #cse121](https://sli.do/#cse121)

TAs:	Trey	Christina	Sahej	Vinay	Kriti
	Sebastian	Colton	Anju	Maria	Minh
	Annie	Janvi	Jonus	Shreya	Vivian
	Jasmine	Arkita	Lydia	Andy	Nicole
	Christian	Vidhi	Luke	Nicolas	Simon
	Lucas	Ritesh	Andras	Shayna	Jessie
	Logan	Hibbah	Archit	Hannah	Lydia
	Jacob	Julia	Ayesha	Aishah	Yijia

Agenda

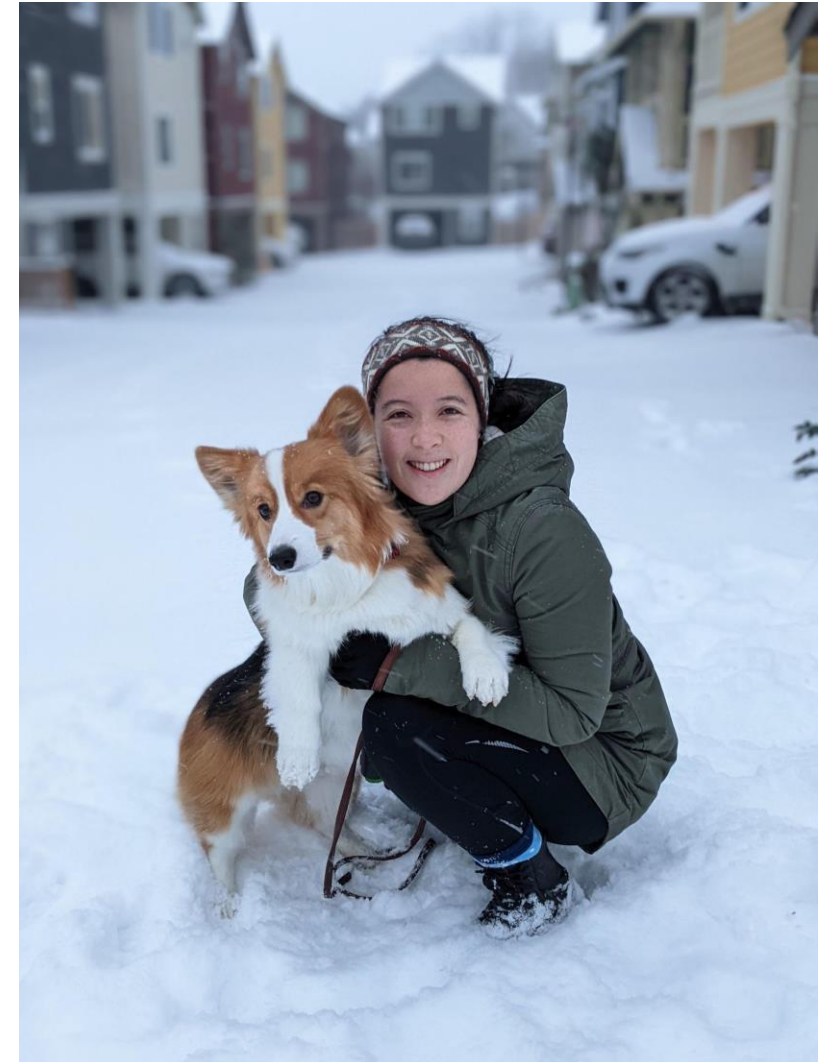
- About me
- About this course
 - Learning objectives
 - Other similar courses
 - Course components
- Our learning model
- Tools and resources
 - Course Website
 - Ed
- Assessment and grading
- Collaboration

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Hi, I'm Miya! (she/her)

- Assistant Teaching Professor in the Allen School
- UW CSE alum
 - BS in CSE
 - BA in Math
 - Minor in ASL
 - MS in CSE
- Former Software Engineer at Microsoft
- Dog mom



Meet your 40 TAs!



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Learning Objectives

or, “What will I learn in this class?”

- **Computational Thinking**
- **Code Comprehension**
- **Code Writing**
- **Communication**
- **Testing**
- **Debugging**
- **Ethics / Impact**

Other Similar Courses

Course	Good choice if...
CSE 121	<ul style="list-style-type: none">• You've never programmed before AND• You are, or want to be, in a major such as CS, CE, ECE, Info, etc. that requires Java programming
CSE 122	<ul style="list-style-type: none">• You've done some programming (roughly one course worth) in any programming language AND• You are, or want to be, in a major such as CS, CE, ECE, Info, etc. that requires Java programming
CSE 123	<ul style="list-style-type: none">• You've taken CSE 122 AND• You are, or want to be, in a major such as CS, CE, ECE, Info, etc. that requires Java programming
CSE 160	<ul style="list-style-type: none">• You've never programmed before AND• You're interested in data science and analysis OR• You'd rather learn Python than Java* OR• You are, or want to be, in a major such as Physics, Bio, Stat, etc. where analyzing data through programming is useful

Other courses of interest: CSE 154, CSE 163

See [Guided Self-Placement](#) and [Introductory Courses](#) for more info

Course Components

Meetings

LECTURES

(x20)

- We're here!
- Introduce concepts, practice ideas, discuss applications.
- Pre-class materials to prepare for class each day. Due **before** class.

SECTIONS

(x18)

- Held in person
- More practice, reviews, applications
- TA advice, how to be an effective student
- Preparation for quizzes / exams

Assessments

PROGRAMMING ASSIGNMENTS

(x4)

- Structured assignments
- Programming in Java
- Applying & implementing course concepts

CREATIVE PROJECTS

(x4)

- More open-ended assignments
- Explore new ideas and applications

QUIZZES

(x3)

- Taken in quiz section
- 45 minutes on computer

EXAM

(x1)

- Culminating exam
- **Date/Time TBA**

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How Learning Works

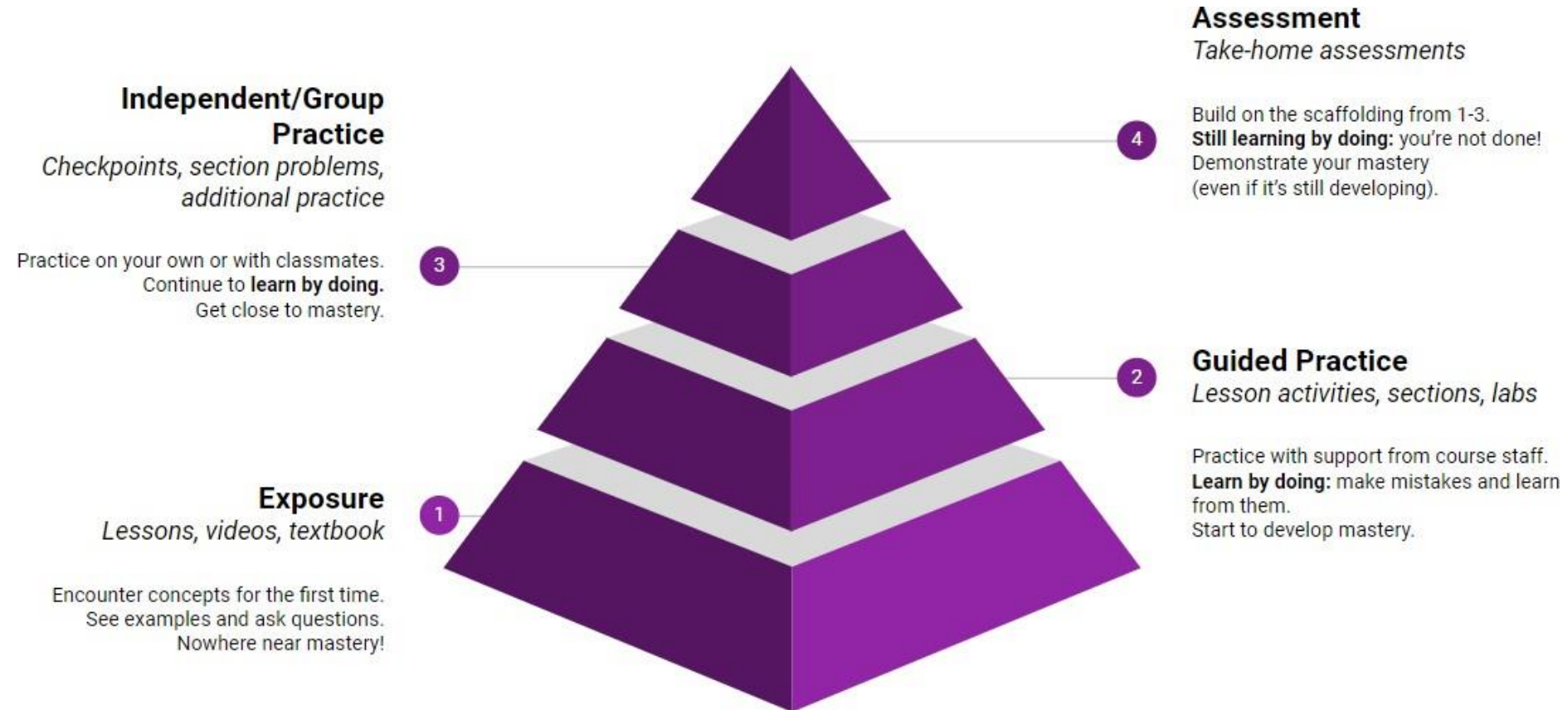
- Learning requires **active participation** in the process. It's not as simple as sitting and listening to someone talk at you.
 - Requires **deliberate practice** in **learning by doing**
 - Benefits from **collaborative learning**
- Hybrid classroom model
 - Asks you to do some preparation before class in the form of readings and practice problems.
 - Should take ~30 minutes a day
 - Class will start with brief recap, then pick up where the reading and practice problems leave off.
 - Attendance isn't graded, but showing up and trying is the first step in succeeding in the class!
- Pre-class materials are ungraded, but
 - It's okay if you find them challenging! That means you are learning!



Metacognition

- **Metacognition**: asking questions about your solution process.
- Examples:
 - **While debugging**: explain to yourself why you're making this change to your program.
 - **Before running your program**: make an explicit prediction of what you expect to see.
 - **When coding**: be aware when you're not making progress, so you can take a break or try a different strategy.
 - **When designing**:
 - Explain the tradeoffs with using a different data structure or algorithm.
 - If one or more requirements change, how would the solution change as a result?
 - Reflect on how you ruled out alternative ideas along the way to a solution.
 - **When studying**: what is the relationship of this topic to other ideas in the course?

Learning in CSE 121 (or anywhere)



Course Culture and Support

- Currently 773 students enrolled!
 - Wide range of backgrounds, interests, and goals
 - **Everyone** is new to programming
- Support and help each other!
 - Form study groups
 - If you have a question, others almost certainly do too

Course Culture and Support: Getting Help

- Discussion Board
 - Feel free to make a public or private post on Ed
 - We encourage you to answer other peoples' questions! A great way to learn
- Introductory Programming Lab (Office Hours)
 - TAs can help you face to face in office hours, and look at your code
 - You can go to the IPL with **any** course questions, not just assignments
- Section
 - Work through related problems, get to know your TA who is here to support you
- Email
 - We prefer that all content and logistic questions go on the Ed discussion board (even if you make them private). 773 of you >>> 41 of us!
 - For serious personal circumstances, you can email Miya directly. It never hurts to email me, but if it's a common logistic question, I may politely ask you to post on the discussion board.

Course Culture and Support

- Policies designed with flexibility in mind
 - Resubmissions, lecture recordings, asynchronous discussion board
- **But**, life and the world still happen around us...
- ***Please reach out ASAP*** if you're struggling or have circumstances that require extra support

The World Around CSE 121

- Our goal is to give you a great CSE 121 experience
 - But CSE 121 does not exist in a vacuum – there’s a lot going on in the world right now that can impact your education
- We’ve designed course policies for maximum flexibility: ability to resubmit assignments and retake quizzes
 - But we cannot cover every individual situation
- **Please reach out** if you need accommodations of any kind to deal with these unfamiliar situations

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Course Website

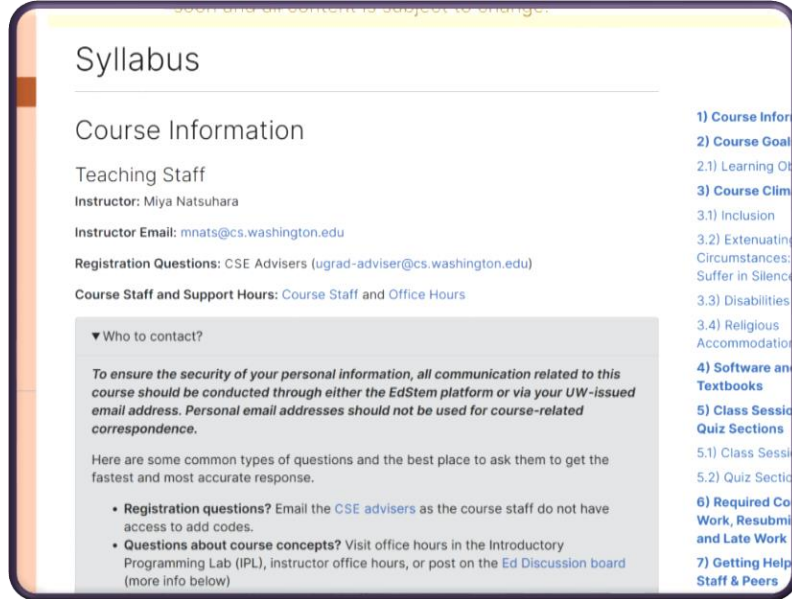
cs.uw.edu/121

- Primary source of course information (*not* Canvas)
- Calendar will contain links to (almost) all resources

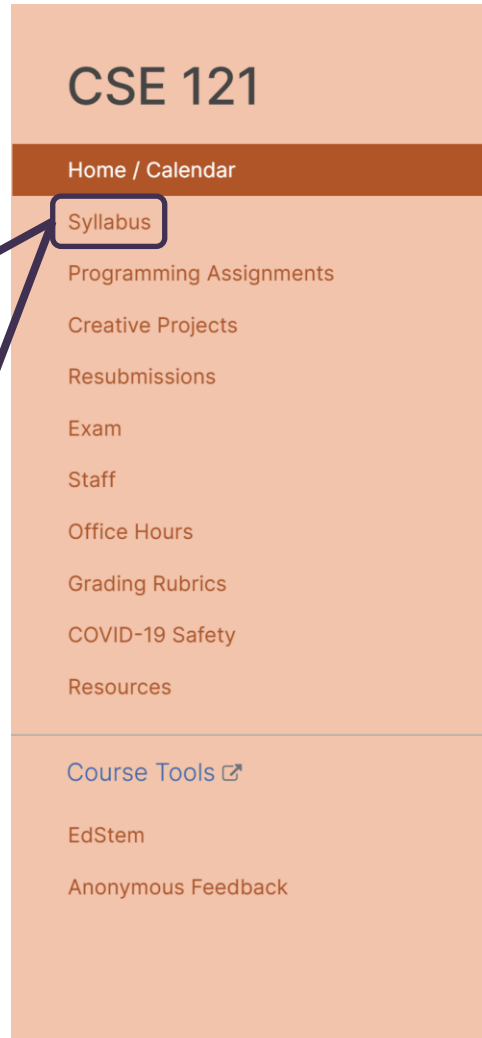
The screenshot shows the CSE 121 course website. The navigation menu on the left includes: Home / Calendar, Syllabus, Programming Assignments, Creative Projects, Resubmissions, Exam, Staff, Office Hours, Grading Rubrics, COVID-19 Safety, Resources, Course Tools (with an external link icon), EdStem, and Anonymous Feedback. The main content area features a yellow 'Attention!' banner stating the website is under development. Below this is the course title 'Introduction to Computer Programming Autumn 2023'. A 'Welcome to CSE 121: Introduction to Computer Programming' section contains expandable items: 'What is this class? What will I learn?', 'Prior Experience and Expectations', 'Syllabus' (highlighted in green), 'Feedback' (highlighted in blue), and 'Registration' (highlighted in yellow). The 'Syllabus' section includes the text: 'If you want to learn more about the course and its policies, please...'. The 'Registration' section includes the text: 'Please do not email the course staff or instructors regarding registration. You do not have access to add codes. Please email ugrad-adviser@cs.washington.edu'.

Course Website

Please review the syllabus ASAP.



The screenshot shows the 'Syllabus' page for CSE 121. It includes sections for 'Course Information', 'Teaching Staff' (Instructor: Miya Natsuhara), 'Registration Questions', and 'Course Staff and Support Hours'. A prominent warning box states: 'To ensure the security of your personal information, all communication related to this course should be conducted through either the EdStem platform or via your UW-issued email address. Personal email addresses should not be used for course-related correspondence.' Below this, it lists common types of questions and provides contact information for registration and course concepts.



The screenshot shows the navigation menu for the CSE 121 website. The menu items are: Home / Calendar, Syllabus (highlighted with a red box), Programming Assignments, Creative Projects, Resubmissions, Exam, Staff, Office Hours, Grading Rubrics, COVID-19 Safety, Resources, Course Tools (with an external link icon), EdStem, and Anonymous Feedback.

Attention! This website is still **under development**. More content will be added soon and all content is subject to change.

Introduction to Computer Programming Autumn 2023

Welcome to CSE 121: Introduction to Computer Programming

▶ What is this class? What will I learn?

▶ Prior Experience and Expectations

Syllabus If you want to learn more about the course and its policies, please review the syllabus.

Feedback Feedback is always welcome! You can contact the course staff for more information.

Registration Please **do not** email the course staff or instructors regarding registration. We do not have access to add codes. Please email ugrad-adviser@cs.washington.edu.

Announcements

This Week (at a glance)

Ed

- Our online learning platform
- Lessons, sections, quizzes all here
- Intro and walkthrough in Section 0

The screenshot displays the Ed Discussion board for CSE 121 - 23au. The top navigation bar includes a 'New Thread' button and various utility icons. The left sidebar shows a list of threads, with the selected thread 'Welcome to CSE 121!' highlighted. The main content area shows the full text of the announcement, including the instructor's name, a welcome message, and a list of resources.

CSE 121 - 23au - Ed Discussion

[New Thread](#)

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Filter ▾

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Miya Natsuhara **STAFF** 2h

elcome to CSE 121! 52
Announcements Miya Natsuhara **STAFF** 1d

ome! 22 92
Miya Natsuhara **STAFF** 2d

Welcome to CSE 121! #2

Miya Natsuhara **STAFF**
Yesterday in **Announcements** **888**
UNPIN STAR WATCHING VIEWS

Hi team!
52

Welcome to CSE 121 ! My name is Miya Natsuhara, and I will be your instructor this quarter. I am really excited to be working with you in CSE 121!

I hope you all managed to stay safe and healthy and had an enjoyable summer break. You're receiving this email on our Ed Discussion board, which will be one of the main places for you to connect with your classmates and the course staff. Please see my post [#1](#) for more information on how to use Ed Discussion.

Resources

In CSE 121 we will use the course website for all information about the course. You can find the course website [here](http://cs.uw.edu/121) (short URL: <http://cs.uw.edu/121>). The course website will be the main place for you to see updates and find information about our course. This includes [the syllabus](#), [the lecture calendar](#), and [information about our COVID-19 safety policies](#). There is a lot there, so we will spend most of the first day of class talking about the class and its structure. **The course**

Other Course Tools

The logo for My Digital Hand, featuring the text "My Digital Hand" in white on a dark blue rectangular background with a white horizontal line underneath.

My Digital Hand

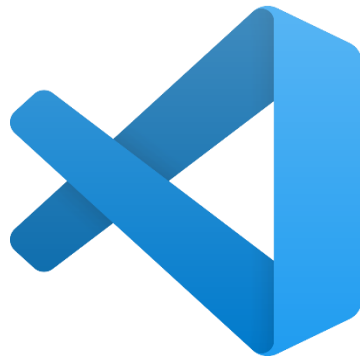
My Digital Hand

- Queueing in office hours



Canvas

- Gradebook
- Lecture recordings



Visual Studio Code

- Develop offline
- Debugger Tool



Sli.do

- In-class activities (ungraded)
- No account needed

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- **Assessment and grading** ←
- Collaboration

Assessment and Grading

- Our goal in the course is for you to **gain proficiency of the concepts and skills** we teach
- We assess your proficiency by asking you to apply the concepts and skills on tasks or problems
- By necessity, we are assessing your work as a proxy for your proficiency

Resubmission

Learning takes time, and doesn't always happen on the first try!

- Each week, one previous Programming Assignment or Creative Project can be resubmitted
 - Must be accompanied by write up explaining changes.
 - Grade on resubmission replaces original grade.
 - An assignment is only eligible for resubmission within the 3 resubmission cycles following its grades being released.
- Your lowest 2 quiz problem grades will be dropped from your gradebook (not considered when calculating course grades)

See [syllabus](#) for more details

Grading

Grades should reflect your proficiency in the course objectives

- All assignments will be graded
 - **E (Excellent),**
 - **S (Satisfactory),**
 - **or N (Not yet)**
 - Under certain circumstances, a grade of U (Unassessable) may be assigned
- Final grades will be assigned based on the **amount of work at each level**

- See the [syllabus](#) for more details

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Collaboration Policy

Learning is hard, but it's easier when you learn from each other

- You are encouraged to form study groups, work together on practice and review, and discuss your ideas and approaches **at a high level**
 - In general, share ideas and work together, but don't copy work. Never send someone else your code or solution write up.
- If you discuss your ideas with others, you must **cite them**
- All work you submit for grading **must be *predominantly and substantially* your own**
 - There is a dedicated [page](#) explaining the policy around use of generative AI tools
- [Withdrawal policy](#)
- See the [syllabus](#) for more details

Help Us Improve!

- CSE 121 is *super new!*
- We worked hard to build a course we think will be effective and supportive and help you succeed
- We probably didn't get it all right

- We appreciate your patience and understanding if we need to make adjustments during the quarter
- Please give us lots of feedback!
 - Post on Ed and/or use the Anonymous Feedback Tool

“Homework” for Next Time

- First assignment will be released Friday, but there are some things to do in the meantime.
- TODO this week
 - [Fill out the introductory survey](#)
 - [Post an introduction video on your section’s Ed thread!](#) 😊
 - Go meet your TA and classmates in Thursday’s quiz section
 - ☆ Complete the pre-class material for Friday (see calendar)
 - [Check over syllabus details](#)