

Welcome to CSE 121!

Matt Wang
Spring 2024

Use this QR code as one way to ask questions!



TAs:	Andy	Anju	Archit	Arkita	Autumn	Christian
	Hannah H	Hannah S	Heather	Hibbah	Janvi	Jessie
	Jonus	Julia	Luke	Maria	Mia	Ritesh
	Shayna	Simon	Trey	Vidhi	Vivian	Gumball?

[sli.do #cse121-0](https://sli.do/#cse121-0)

Today's playlist:
[CSE 121 lecture beats 24sp](#)

Agenda (1/7)

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

Agenda (2/7)

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Hi, I'm Matt! (he/him)

- (new) Assistant Teaching Professor in the Allen School
- grew up mostly in Toronto and sometimes Tokyo!
- went to UCLA!
 - BS & MS in Computer Science
 - BS in Math-Economics
- computer science interests: CS education, “open-source”, programming languages, accessibility
- non-CS interests: reading, music (Laufey was my #1 this wrapped), video games, skiing & ice skating!



Meet your 23 TAs!



Agenda (3/7)

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Learning Objectives

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

- **Computational Thinking**
- **Code Comprehension**
- **Code Writing**
- **Communication**
- **Testing**
- **Debugging**
- **Ethics & Societal 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

(x16)

- Held in person
- More practice, review, 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
- **Wed, June 5th**
2:30 – 4:20 PM

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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**
- Does not work well if you cram everything!



Pre-Class Materials (1/3)

Core element of course: **pre-class material**

- prepare for each lecture with readings & practice problems
- should take ~30 minutes per lecture (why we don't have Monday lectures!)
- class will start with a brief recap, then pick off where we left off

Pre-Class Materials (2/3)

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Which means...

- we can spend lecture diving deeper, answering questions, and think-pair-share
- you can ask about pre-lecture material in class or quiz section!

Pre-Class Materials (3/3)

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Which means...

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- you can ask about pre-lecture material in class or quiz section!

Pre-class materials are ungraded, which means...

- it's okay if you find them challenging – that means you're learning!
- but, you should do them, and we will assume you've done them

Consistent and Active Participation (1/2)

Attendance is not graded. But, it's strongly encouraged!

- lectures & sections are not going to be just us talking at you!
- ex: live in-class coding, debugging, think-pair-share, and problem-solving
- spreading out ~ 1-2 hours each day over Tuesday – Friday is much more effective than cramming before the assignment is due!

Consistent and Active Participation (2/2)

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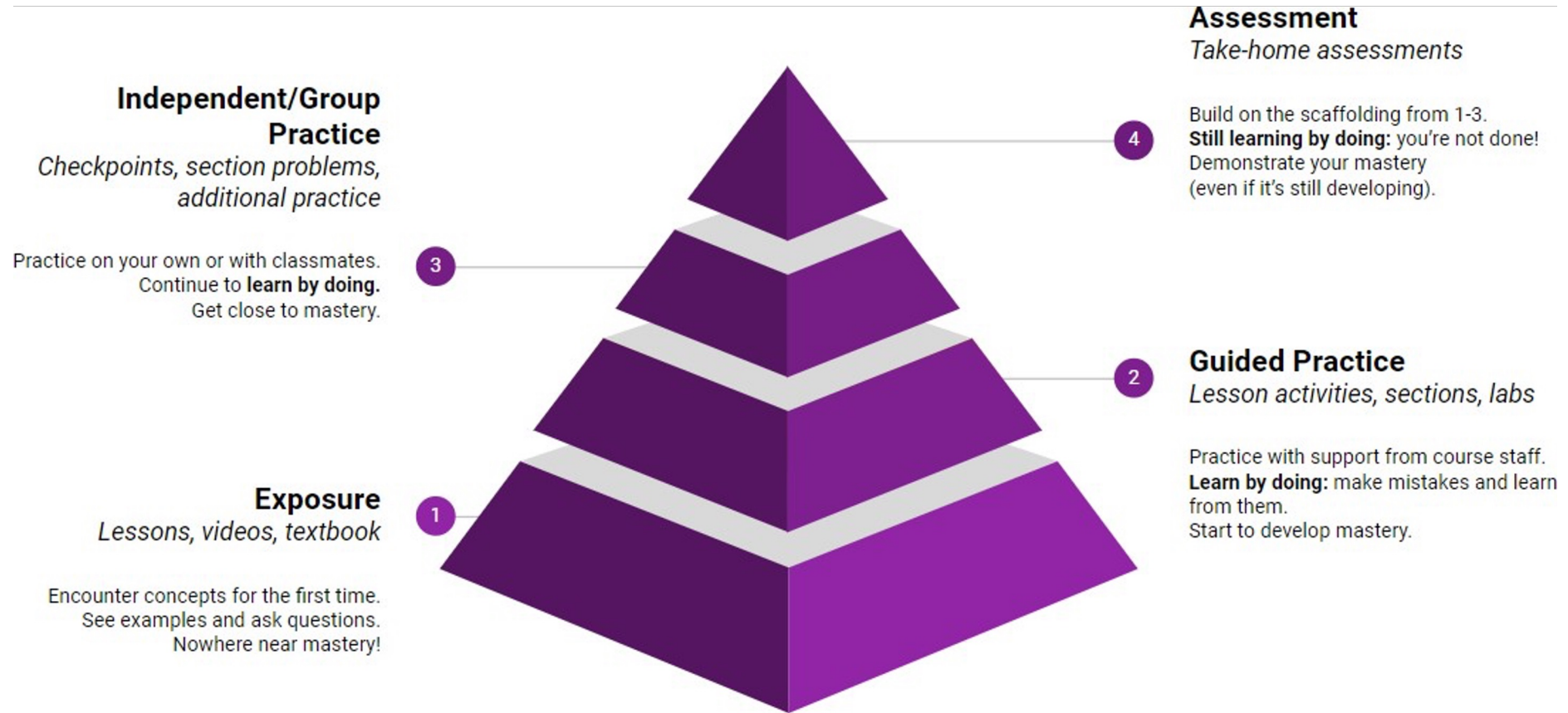
Catching up:

- all lectures are recorded on Panopto; slides are on our website.
- section materials are on Ed, but section will not be recorded.

Metacognition

- **Metacognition**: asking questions about your solution process.
- Examples:
 - **While debugging**: explain to yourself why you're trying this change.
 - **Before running your program**: make an explicit prediction of what you expect.
 - **When working**: 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 231 students enrolled!
 - *Almost none* are CSE majors!
 - 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: Live Support

Introductory Programming Lab (TA Office Hours – starting Week 2)

- #1 place to get help (and highly rated in the class!)
- face-to-face help from TAs on **any** course questions – not just assignments

TA Section

- Work through practice problems (this is how you learn!)
- Get to know your TAs & peers!

Instructor Office Hours (in-person & Zoom – schedule on website)

- I don't byte (most of the time)
- Great for things from lecture, personal questions, or just to say hi!

Course Culture and Support: Ed & Email

Ed Board

- Best for content and logistics questions – 231 of you >> 24 of us!!
- Feel free to make them public or private (and/or anonymous)
- Answer other students' questions – great way to learn!

Email

- Best for personal circumstances and/or private questions
- If unsure, always feel free to email Matt (at mxw@cs.washington.edu)
- May politely ask you to post on Ed instead!

The World Around CSE 121 & Reaching Out

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: resubmissions, dropping quiz/exam problems, asynchronous help & lecture recordings.

Please reach out ASAP if you're struggling or have circumstances that require extra support. We're happy to help – we just need to know!

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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 displays the CSE 121 course website. The left sidebar contains a navigation menu with the following items: Home / Calendar (highlighted), Syllabus, Programming Assignments, Creative Projects, Resubmissions, Exam, Staff, Office Hours, Grading Rubrics, COVID-19 Safety, Resources, and Search Site. Below this is a 'Course Tools' section with links for EdStem and Anonymous Feedback, and an 'Acknowledgements' link at the bottom. The main content area is titled 'Introduction to Computer Programming Spring 2024'. It features a welcome message, followed by expandable sections for 'What is this class? What will I learn?', 'Prior Experience and Expectations', 'Syllabus' (with a link to the course syllabus), 'Feedback' (with a link to submit feedback), and 'Registration' (with a note that staff do not have access to add codes and a link to email ugrad-adviser@cs.washington.edu). Below these are sections for 'Announcements' and 'This Week (at a glance)', which lists upcoming lessons and lectures for Wednesday (03/13), Thursday (03/14), and Friday (03/15).

Syllabus (website)

Please review the syllabus ASAP.

21
Calendar

Assignments
Projects
Resources
Feedback

Syllabus

Course Information

Teaching Staff
Instructor: Matt Wang
Instructor Email: mxw@cs.washington.edu
Registration Questions: CSE Advisers (ugrad-adviser@cs.washington.edu)
Course Staff and Support Hours: [Course Staff and Office Hours](#)

▼ Who to contact?
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.

Here are some common types of questions and the best place to ask them to get the fastest and most accurate response.

- **Registration questions?** Email the CSE advisers as the course staff do not have access to add codes.
- **Questions about course concepts?** Visit office hours in the Introductory Programming Lab (IPL), instructor office hours, or post on the [Ed Discussion board](#) (more info below)
- **Questions about assignments?** Visit office hours in the Introductory Programming Lab (IPL), instructor office hours, or post on the [Ed Discussion board](#) (more info below)
- **Questions about extenuating circumstances?** Post privately on the [Ed Discussion board](#) (more info below) or email Matt at mxw@cs.washington.edu

Class Session Meeting
See [Class Sessions](#) for information on how each day of class will be run.

CSE 121

Home / Calendar

Syllabus

Programming Assignments

Creative Projects

Resubmissions

Exam

Staff

Office Hours

Grading Rubrics

COVID-19 Safety

Resources

Search Site

Course Tools [↗](#)

EdStem

Anonymous Feedback

Acknowledgements

Introduction to Computer Programming Spring 2024

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 check out our [course syllabus](#).

Feedback Feedback is always welcome! You can contact the the course staff or submit [anonymous feedback](#).

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

Announcements

This Week (at a glance)

Wednesday (03/13)

- 🗣️ Lesson 0: Course Policies; Hello World!
A lecture @ 11:30 in KNE 120

Thursday (03/14)

- 📅 Section 0: Welcome!

Friday (03/15)

- 🗣️ Lesson 1: Printing; Turtle Basics
A lecture @ 11:30 in KNE 120
- 📅 C0 - released. Due Wednesday (04/03) @ 11:59pm PT.

Ed

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

ed CSE 121 - 24sp - Ed Discussion

New Thread Search Filter

COURSES

- CSE 121 - 24sp
- CSE 122 - 24sp
- CSE 123 - 24sp
- CSE 190*
- CSE 590 E - 24sp
- 7 more

CATEGORIES

- Lectures
- Sections
- Pre-Class Material/Work
- Programming Assignm...
- Creative Projects
- Quizzes
- Resubmissions
- Final Exam
- Grading Clarification
- Social
- Announcements
- Class Megathreads
- General

First Class Today! Announcements Matt Wang 25m 2

Welcome to CSE 121! Announcements Matt Wang 2d 3 19

This Week

- Panopto Recordings Lectures Anonymous 2d 1
- Quiz section tuesday? General Anonymous 2d 2 2
- Location of Lectures Lectures Ellen Leier 2d 1 2

edstem.org/us/courses/56774/discussion/4632792

Welcome to CSE 121! #3

Matt Wang STAFF 2 days ago in Announcements UNPIN STAR WATCHING VIEWS 593

Hi everyone!

19 Welcome to CSE 121!! My name is Matt Wang, and I will be your instructor this quarter. I'm super excited to be working with you in CSE 121!

I hope you had a fun (and potentially cherry blossom-filled) spring 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.

The rest of this post is a combination of different logistics items. Please read this carefully before our first class on Wednesday!

Resources

In CSE 121, the course website will host all of the information about the course. You can find the course website at <https://courses.cs.washington.edu/courses/cse121/24sp/> (short URL: <https://cs.uw.edu/121>). Some relevant pages include the [syllabus](#), the [lecture calendar](#), and [information about our COVID-19 safety policies](#).

There's a lot there! As a result, we'll spend a part of the first day of the class talking about the website and how to use it effectively. The bottom line is that **the course website will be your main place to find new links to lessons, assignments, and other course resources.**

The only other place you will need to check regularly is the Ed Discussion board (right here!). Ed is where you can post questions about the course that your peers or the course staff can answer (as well as many other features). We will also post any announcements on the discussion board. If you'd like to learn more about Ed, check out [their tutorial](#). Your TAs will also do an Ed walkthrough in your first quiz section.

Note that **we do not use Canvas in this class!**

First Day of Class, March 27th

Our first day of class is this Wednesday, March 27th! We will spend a bit of the first day reviewing some information about the syllabus, setting expectations for course policies, and talking about how to succeed in this class. We'll also write our first program! This email provides the most important things **before** attending class later this week.

Other Course Tools (brief overview)

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

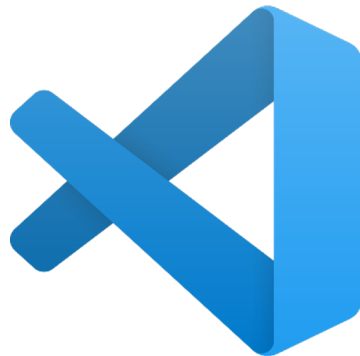
My Digital Hand

- Queueing in office hours



Canvas / Panopto

- Lecture recordings



Visual Studio Code

- Not strictly necessary!
- Develop offline
- Debugger Tool



Sli.do

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

Agenda (6/7)

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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

Grading

Grades should reflect proficiency in course objectives.

All assignments will be graded with “E/S/N” grading:

- **E (Excellent)**
- **S (Satisfactory)**
- **N (Not Yet)**

Final grades are assigned based on amount of work at each level.

We’ll discuss this more when our first assignment is released.

See [syllabus](#) for more details.

Resubmissions

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

Each week, one previous assignment or project can be resubmitted.

- Must be accompanied by write-up explaining change (reflection!)
- Grade on your resubmission replaces original grade
- Assignments are only eligible for resubmission within 3 “cycles” following its grade being released

We'll discuss this more when our first assignment is graded.

See [syllabus](#) for more details.

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Collaboration Policy

You are encouraged to form study groups, work together on practice and review, and discuss your ideas & approaches **at a high level**.

- Sharing ideas and working together is good – but, please cite them
- Don't copy work. In particular, **never send someone else your code**.

All work you submit must be **predominantly** and **substantially** your own.

- Includes Generative AI tools! (see [dedicated website page](#))

See [syllabus](#) for more details, including on the withdrawal policy.

Help us improve!

CSE 121 is **super new!** We've worked hard to build a course that we think will be effective, supportive, and help you succeed.

But... 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
- Mid and end-of-quarter feedback
- Use [CSE Anonymous Feedback Tool](#)

“Homework” for Next Time

First assignment will be released Friday, but there are some things to do in the meantime.

TODOs this week:

- [Fill out the introductory survey](#)
- Go meet your TA and classmates in Thursday’s quiz section
- ★ Complete the pre-class material for Friday (see calendar)
- [Check over syllabus details](#)