

Welcome to CSE 143!

Brett Wortzman

Winter 2021

Please make sure your microphone is muted.

If you're willing, turn on your video so we can see you!

Agenda

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

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

- Assistant Teaching Professor
- Frequent 14X instructor
- Also interested in CS education/pedagogy
- Previously:
 - trained CS teachers
 - developed CS curriculum
 - taught high school CS
 - worked as a software engineer



Meet your TAs



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Learning Objectives

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

- 1. Functionality/Behavior:** Write functionally correct and efficient Java programs and systems of medium to large length and complexity that meet a provided specification and/or solve a specified problem
- 2. Comprehension:** Trace and predict the behavior of programs and systems
- 3. Data Abstraction:** Select and apply appropriate abstract data types to manage program state
- 4. Data Structures:** Design, implement, and modify data structures to efficiently and effectively provide a defined set of operations
- 5. Functional Abstraction:** Document, maintain, and utilize appropriate abstractions between the implementer and client of a library
- 6. Decomposition:** Solve problems by breaking them into subproblems and recombining the solutions using techniques such as methods, inheritance, and recursion
- 7. Code Quality:** Define programs that are well-written, readable, maintainable, and conform to established standards

Comparison to CSE 142 (or similar)

CSE 142

- Control structures
- Simple (primitive) data
- Client view
- Java as focus
- *How do I do this?*

CSE 143

- Data structures
- Complex data
- Implementer view
- Java as example
- *What can I do with this?*

Other Similar Courses

Course	Good choice if...
CSE 143	<ul style="list-style-type: none">• You took CSE 142 OR• You took AP CS A or IB CS in high school OR• You've programmed a fair bit before (especially in Java)
CSE 142	<ul style="list-style-type: none">• You've never programmed before OR• You've done a little programming but feel rusty or not confident
CSE 163	<ul style="list-style-type: none">• You are interested in programs to manipulate and analyze data AND• You are in, or interested, a major that doesn't require CSE 143
CSE 154	<ul style="list-style-type: none">• You are interested in learning to develop web applications

Course Components

Lessons (aka Lectures)

- MWF, 12:30 or 2:30
- Held live via Zoom; recordings released after
- First introductions to course concepts
- Mix of presentation of content and practice activities/problems
- Some required pre-work

Sections

- TTh, various times
- Led by TAs
- Held live via Zoom; **not** recorded
 - Short videos will be released on occasion when important material is covered
- Additional review, discussion, and practice
- Mostly practice problems

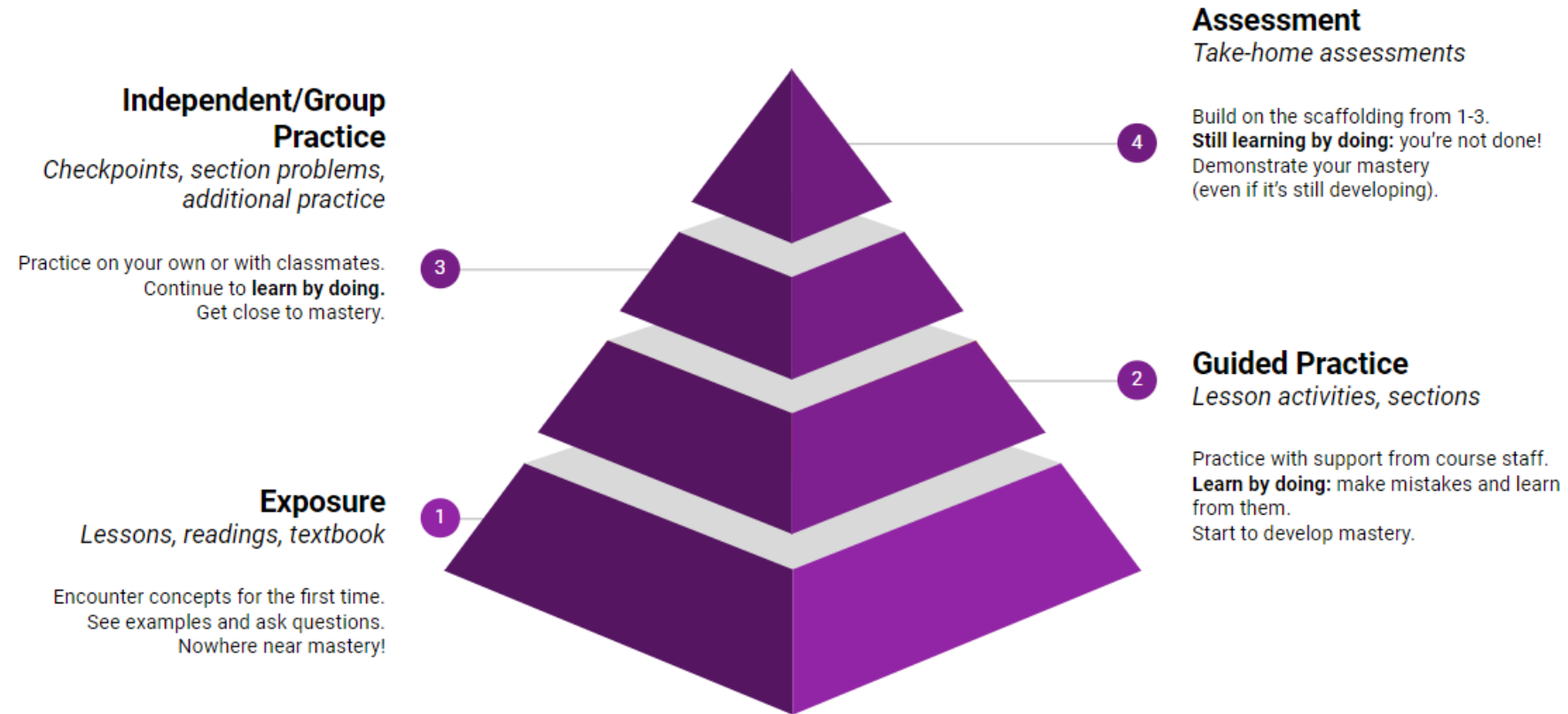
Attendance is not taken, but you are responsible for all material (including announcements).

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Learning in CSE 143 (or anywhere)



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Course Website


cs.uw.edu/143

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

CSE 143, Winter 2021

Home Calendar Assessments Staff Zoom Syllabus Ed

Attention!
This website is in open beta, but is still **under development**. All content, including course policies, requirements, and schedules, is subject to change.

 **S E** **1 4 3**

Welcome to Intro. to Computer Programming III!
To learn more about the policies and structure for this class, please check the [course syllabus](#).

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

Announcements

January 4: Welcome to CSE 143!
Welcome to CSE 143 for Winter 2021! We are excited to have you in class. See the Ed announcement below for details about our first day.
[View Full Announcement on Ed](#)

This Week

Course Website

Please review the syllabus ASAP.

CSE 143, Winter 2021 Syllabus

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CSE 143, Winter 2021: Syllabus

- Course overview
- Learning objectives
- Remote learning
 - Recordings and privacy
- Inclusion
- Course components
 - Lessons
 - Sections
- Required course work
 - Types of assignments
 - Revision and Resubmission
 - Late work
- Getting help
 - Extenuating circumstances
- Grading
 - Grading scale
 - Take-home assessment grading
 - Final grade assignment
- Collaboration and academic conduct
 - Philosophy
 - Permitted and prohibited actions
- Penalties
- Amnesty
- Guidance to students outside the U.S.
- Religious accommodations
- Disability Resources for Students
- Acknowledgements

CSE 143: Intro. to Computer Programming II

Note: All times on this website are listed in PDT (local time in Seattle). You can use [this page](#) or Google to convert times to your local time zone.

Teaching staff:

- Instructor:** Brett Wortzman (brettwo@cs.washington.edu)
- Course Administrator:** Pim Lustig (cse143@uw.edu)
Pim is your best resource for registration questions such as obtaining add codes, switching sections, or changing to or from S/NS grading.
- Course staff and office hours:** [Full list here](#)

Lectures:
All course meetings will be conducted via Zoom.

- MWF 12:30pm-1:20pm (A Lecture)
- MWF 2:30pm-3:20pm (B Lecture)

Other:

- Prerequisite: CSE 142
- Course website: <https://courses.cs.washington.edu/courses/cse143/21wi>
- [Canvas course](#)
- [Ed course](#)
- Recommended textbook: *Building Java Programs* by Reges/Stepp (5th edition)
- [Desktop software](#)
- [Anonymous Feedback](#)

Course overview

This course is a continuation of CSE 142. While CSE 142 focused on control issues (loops, conditionals, methods, parameter passing, etc.), CSE 143 focuses on data issues. Topics include: abstract data types (ADTs), lists, stacks, queues, linked lists, binary trees, recursion, interfaces, inheritance, and encapsulation. The course also introduces the notion of complexity and performance

CSE 143, Winter 2021

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This Week

Course Website

Make sure you're aware of Zoom norms.

CSE 143, Winter 2021 Zoom Instructions

Home Calendar Assessments Staff Zoom Syllabus Ed

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CSE 143, Winter 2021: Zoom Instructions

Accessing a Zoom Event
Ed Links
Zoom in Canvas
Canvas Calendar
Accessing Lecture Recordings
CSE 143 Zoom Norms and Best Practices
Back to top

These instructions were originally written for CSE 163 and CSE 142, so you may see references to those courses in the images. All instructions apply to CSE 143 in the same way. Thanks to Hunter Schafer for developing these excellent instructions!

Accessing a Zoom Event

There are three main ways to access a Zoom event for CSE 143 described in the sections below. Choose whichever you find most convenient! **To access recordings of the lecture sessions, you will need to use the Zoom in Canvas option.**

When joining the call, if this is for a class session, you will automatically be added to the call assuming that the member of the course staff leading that session has started the call. If this is for office hours, you may be added to a waiting room and a course staff member will help you when they are available!

For further instructions, see UW-IT's documentation:

- Sign into Zoom software on your computer
 - Important:** You will need to follow the instructions to "Login with SSO" so you can sign in with your UW Zoom account. For privacy reasons, only UW Zoom accounts will be allowed into our sessions.
- UW Zoom FAQ

Ed Links

In Ed, click on the down arrow icon to navigate to the Resources page.

CSE 143, Winter 2021

Home Calendar Assessments Zoom Syllabus Ed

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This Week

Zoom

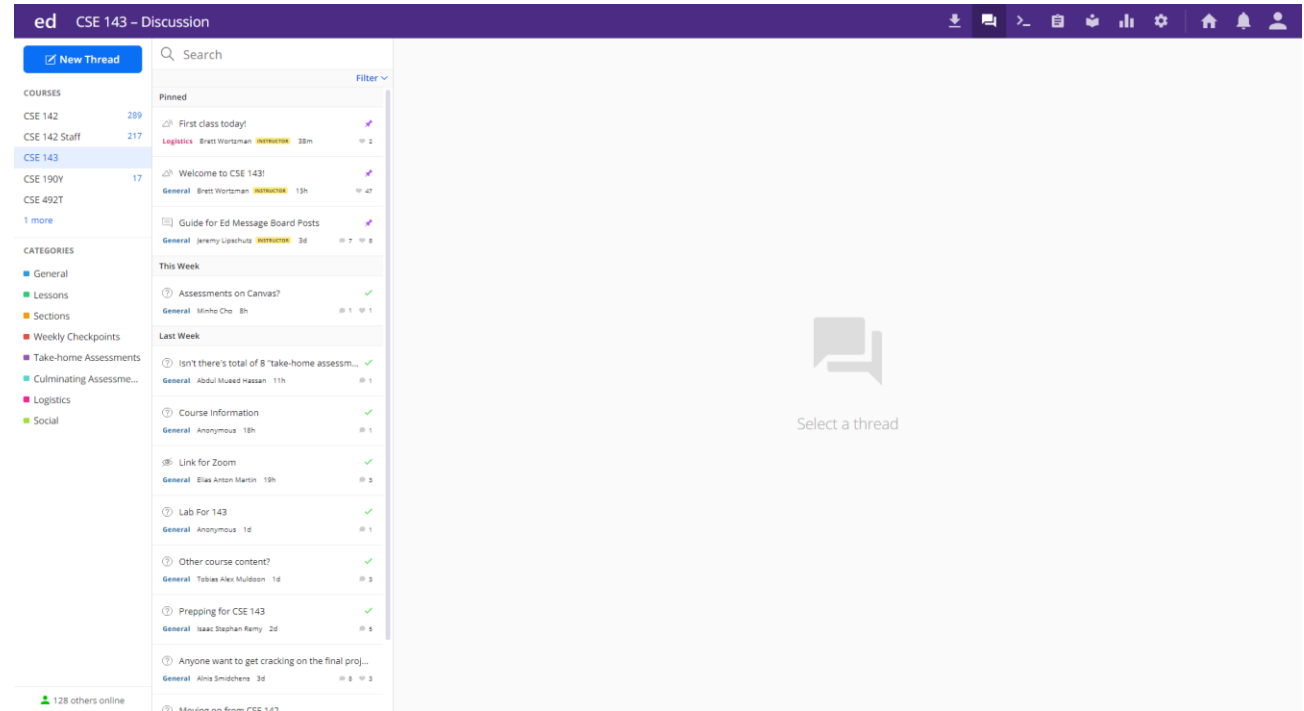
- Keep your microphone muted until called on
- Use the “Raise Hand” button to ask to speak



- Turn video on if you're comfortable!
 - I like seeing your faces. 😊
- Chat will usually be disabled in lessons
 - But we'll have other options...

Ed

- Our online learning platform
- Lessons, sections, labs, assessments all here
- Intro and walkthrough video forthcoming



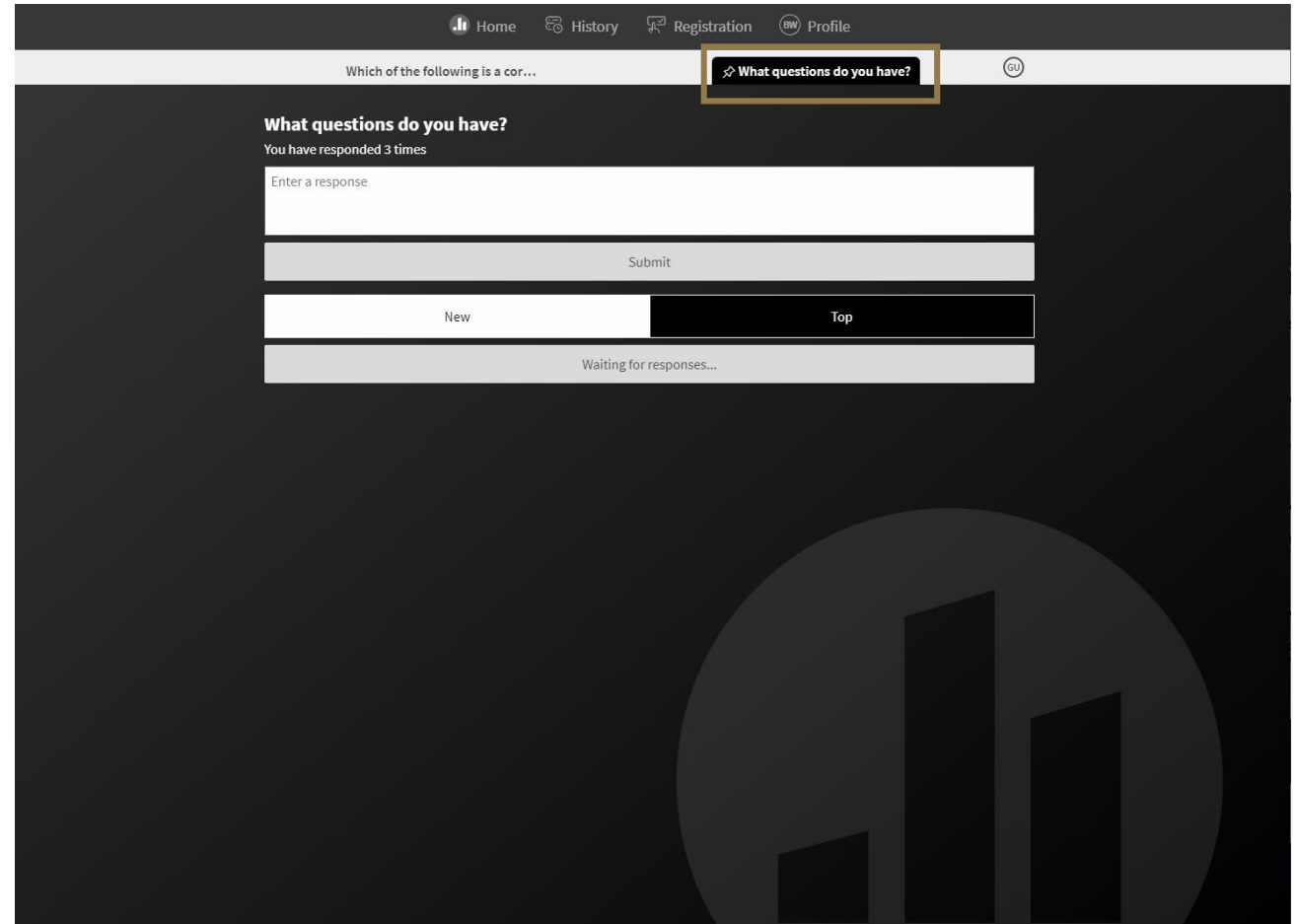
The screenshot shows the Ed discussion board interface for CSE 143. The top navigation bar is purple and contains the text "ed CSE 143 - Discussion" along with various utility icons. Below the navigation bar, there is a sidebar on the left with a "New Thread" button and a search bar. The sidebar lists "COURSES" (CSE 142, CSE 142 Staff, CSE 143, CSE 190V, CSE 492T) and "CATEGORIES" (General, Lessons, Sections, Weekly Checkpoints, Take-home Assessments, Culminating Assessments, Logistics, Social). The main content area displays a list of discussion threads, including pinned messages like "First class today!" and "Welcome to CSE 143!", and sections for "This Week" and "Last Week" with various course-related posts. A large, faint watermark "Select a thread" is visible in the background of the main content area.

PollEverywhere

pollev.com/brettwo

Two purposes (at least):

- Questions backchannel
 - Ask questions at any time
 - I'll check periodically and respond
 - Some may be deferred
 - Answers will be posted on Ed after class

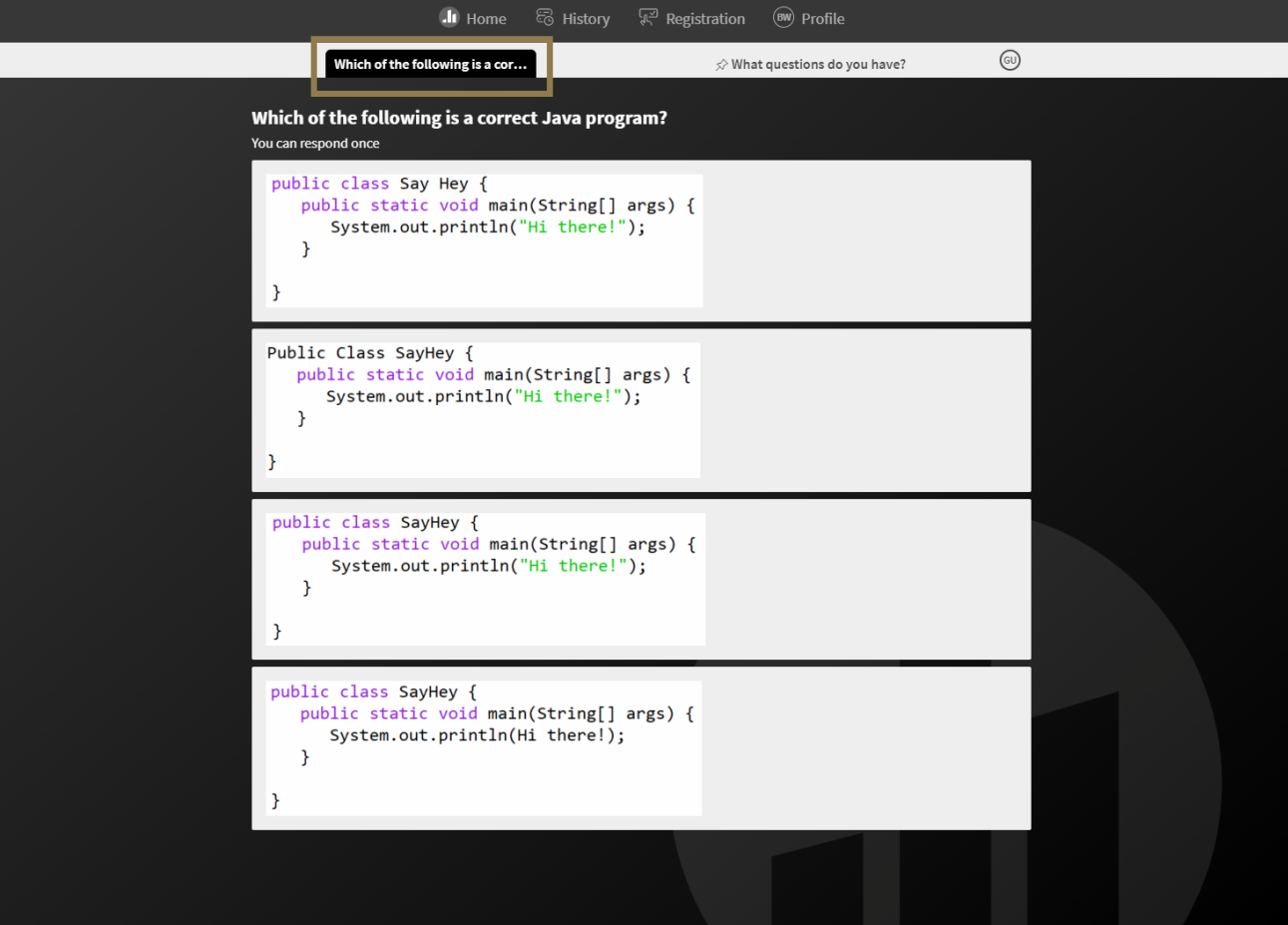


PollEverywhere

pollev.com/brettwo

Two purposes (at least):

- In-class activities
 - Short questions, problems, etc.
 - Usually multiple choice
 - *Not* graded
 - Not even on participation



The screenshot shows a web browser interface for a poll. At the top, there are navigation links: Home, History, Registration, and Profile. Below that, a search bar contains the text "Which of the following is a cor...". To the right of the search bar, there is a link "What questions do you have?" and a user profile icon. The main content area displays the question: "Which of the following is a correct Java program?" and a note "You can respond once". Below the question are four code snippets, each in a separate box. The first snippet is:

```
public class Say Hey {
    public static void main(String[] args) {
        System.out.println("Hi there!");
    }
}
```

 The second snippet is:

```
Public Class SayHey {
    public static void main(String[] args) {
        System.out.println("Hi there!");
    }
}
```

 The third snippet is:

```
public class SayHey {
    public static void main(String[] args) {
        System.out.println("Hi there!");
    }
}
```

 The fourth snippet is:

```
public class SayHey {
    public static void main(String[] args) {
        System.out.println(Hi there!);
    }
}
```

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- Collaboration

Assessment and Grading

- Our goal in the course is for you to **master the concepts and skills** we teach
- We assess your mastery 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 *mastery*
- Your final grade should reflect **the extent to which you have demonstrated mastery of the course objectives**

Assessment

- Your learning in this course will be assessed in four ways:
 - **Take-home assessments (~weekly, 8 total)**
 - Large programming assignments to assess your full mastery of that week's concepts (plus some previous material)
 - Checkpoints (~weekly, 9-10 total)
 - Short problems to help you practice and make sure you've got the basics for the week
 - Culminating assessments (2 total)
 - Series of problems covering all material up to that point
 - Reflections (w/other assignments, 8-10 total)
 - Written assignments to help you think critically about your learning and progress

Resubmission

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

- One previous take-home assessment can be **resubmitted** each week
 - Initial submission must have been made by original due date and passed verification tests
 - Must be accompanied by a write-up describing changes
 - Grade on resubmission will **completely** replace original grade
- See the [syllabus](#) for more details

Grading

Grades should reflect your mastery of the course objectives

- Checkpoints, culminating assessments, and reflections are graded **S (Satisfactory)** or **N (Not yet)**
 - If you submit on time and meet all requirements, you'll get an S
- Take-home assessments will be grade **E (Exemplary)**, **S (Satisfactory)**, **N (Not yet)**, or **U (Unassessable)** on four dimensions.
 - Specifics forthcoming
- Final grades will be assigned based on the **amount of work at each level**
- See the [syllabus](#) for more details

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**
- If you discuss your ideas with others, you must **cite them**
- All work you submit for grading **must be your own**
- Any work found to not be your own will receive a grade of **U on all dimensions and may not be resubmitted**
 - If it's not your work, we can't assess your mastery from it
- See the [syllabus](#) for more details

Amnesty

Sometimes, we make bad choices that we regret

- “If you submit work that is in violation of the academic conduct policy, you bring the action to Brett's attention within 72 hours of submission and request amnesty. If you do so, you will receive a grade of U for the initial submission, but you **will be allowed to resubmit your work under the normal resubmission process.**”
- See the [syllabus](#) for more details