CSE 143: Computer Programming II

Course Information

Teaching Staff

Instructor: Taylor Ka (taylorka@cs.washington.edu)
- Office: CSE 212 (Allen Center)
- Office hours: Wednesday 1 - 2pm, Thursday 2:30 - 3:30pm

Course Administration: Pim Lustig (cse143@uw.edu) - email for registration issues

Lecture Time

MWF: 10:50 am - 11:50 am ([GUG](#) 220)

Discussion Sections

You will be expected to participate in two weekly 60-minute discussion sections. The TA who runs your discussion section will grade your homework assignments. In section we will answer questions, go over common errors in homework solutions and discuss sample problems in more detail than we can in lecture.

Other Info

- Prerequisite: CSE 142 or equivalent
- Course Website: https://courses.cs.washington.edu/courses/cse143/22su
- EdStem: https://edstem.org/us/courses/22858/
- Software: https://courses.cs.washington.edu/courses/cse14x/software2-openJDK/
- Recommended textbook: [Building Java Programs by Reges/Stepp (5th edition)](#)

Course Goals

This course is a continuation of CSE 142. While CSE 142 focused on topics of program control (loops, conditionals, methods, parameter passing, etc.), CSE 143 focuses on topics of manipulating data. Topics include: abstract data types (ADTs), lists, stacks, queues, linked lists, binary trees, recursion, interfaces, inheritance, and encapsulation. Students will also learn about the notion of complexity and how to evaluate performance trade-offs of classic algorithms (such as sorting and searching) and classic data structures (such as lists, sets, and maps). The course will include a mixture of implementing data structures and using components from the Java Collections Framework.

Required Course Work, Late Work, and Resubmissions

Checkpoints

Checkpoints are short coding problems to give you practice with the content covered in class that week. They are generally due on Sundays and may be worked on collaboratively with classmates. Checkpoints are worth 1 point each in the homework category with no partial credit. Checkpoints are only graded on external behavior, so you'll earn full credit if you pass all the test cases on Ed.

Homework Assignments

You'll complete **7** week-long programming assignments throughout the quarter, generally graded on a 20-point scale and assessed on both external correctness and style. (A1 through A8, *with A4 omitted due to the shortened length of summer quarter*). A8 is the final project and cannot be resubmitted. Assignments must be completed independently, though you may discuss your approach with classmates (more on this below).

Late Policy

Each homework assignment will list its due date. Most will be due on Thursdays at 11:59 pm. Each student in the class will have a total of **6 "free" late days** (a late day is 24 hours of lateness). Late days can only be used on the initial submission for homework assignments. Late days cannot be used for checkpoints or resubmissions. There are no partial days, so assignments are either on time, 1 day late, 2 days late, etc.

Once a student has used up all of their late days, each successive late day will result in a loss of 1 point. No assignment will be accepted more than 3 days after its due-date. If you are experiencing a problem that makes it difficult for you to complete an assignment on time, you should contact the instructor by email as early as possible to request an extension.

We will grade only one version of any given program. If you make multiple submissions for an assignment, we will grade the last version submitted. If you submit a version that you later decide you do not want to have graded, you must warn your TA not to grade that version and to wait for a later submission from you.

Please see the policy on *Extenuating Circumstances* for more information

Revision and Resubmission

Learning from mistakes is an important part of mastering any skill. To enable this, you are allowed to revise and resubmit your work on *most* homework assignments (**see details below**) to demonstrate improved mastery after your initial submission.

Resubmissions are subject to the following rules:

- Each resubmission period will be specific to the most recently graded assignment.
- Your final grade for an assignment will be the maximum of your initial submission score and the **average** of your initial and resubmission score. In other words,
  `overallScore = Math.max(initialScore, (initialScore + resubmissionScore)/2.0)`
  This means that your score will not go down if you resubmit! We encourage you to resubmit all assignments to improve your work.
- Lateness deductions from the initial submission are always applied and will not be "averaged out".
- Assignments that have been found to involve academic misconduct may not be resubmitted.

We will have the following resubmission periods this quarter:

- 07/07 - 07/13: A1 resubmission
- 07/14 - 07/20: A2 resubmission
- 07/21 - 07/27: A3 resubmission

- *(A4 is not assigned during summer quarter)*
- 08/04 - 08/10: A5 resubmission
- 08/11 - 08/16: A6 resubmission
- 08/16 - 08/20: A7 resubmission
- **Note that A8 (Final Project) cannot be resubmitted**.

We make every effort to identify all areas that could be improved when grading, but we are human and we cannot guarantee that your feedback is exhaustive. Be sure to consult all available resources and materials to ensure your work meets all guidelines.

Exams

We will have an in-person midterm and final.

- Midterm - Friday 7/22/22 during lecture
- Final exam - Thursday 8/18/22 during quiz section **and** Friday 8/19/22 during lecture

The exams will be closed-book and closed-note. If you need to miss an exam, you must contact the instructor prior to the exam to get permission. Even if you are sick, you need to send an email stating that you need to be contacted. Students wishing to take an exam at the DRS testing facility must schedule their exam at least three weeks in advance of the exam or they may not be accommodated.

Grades

The scores from your weekly homework assignments and exams will be combined according to the following weightings:

- 40% weekly homework assignments and checkpoints
- 20% midterm
- 40% final exam

Using the weightings above, each student's scores will be turned into an overall score ranging from 0 to 100 percent. These will be turned into grades as follows:

- 90%: at least 3.5
- 80%: at least 2.5
- 70%: at least 1.5
- 60%: at least 0.7

Exact final grades, including all grades not listed above, will be determined at the end of the quarter by the course staff based on each student's overall body of work. Estimates of students' final grades beyond the requirements listed above will not be provided.

Academic Honesty and Collaboration

Philosophy

Learning is a collaborative process, and everyone benefits from working with others when learning new concepts and skills. In general, we encourage you to collaborate with your classmates in your learning and take advantage of each others' experience, understanding, and perspectives.

However, there is a difference between learning collaboratively and submitting work that is not your own. This can be a subtle but important distinction. Ultimately, the goal of the course is to ensure that every student masters the material and develops the skills to succeed in future courses, projects, and other related work. Submitting work that is not your own, or allowing another student to submit your work as their own, does not contribute toward developing mastery. In addition, this deprives you of the ability to receive feedback and support from the course staff in addressing the areas in which you are struggling.

For more information, consult the Allen School policy on academic misconduct.

Permitted and Prohibited Actions

Although checkpoints can be done collaboratively, you must complete the homework assignments individually. You may discuss the assignment in general terms with other students including a discussion of how to approach the problem, but the code you write must be your own. The intent is to allow you to get some help when you are stuck, but this help should be limited and should never involve details of how to code a solution. **You must abide by the following:**

- You may **not** work as a partner with another student on an assignment.
- You may **not** show another student your solution to an assignment.
- You may **not** have another person (current student, former student, tutor, friend, anyone) "walk you through" how to solve an assignment.
- You may **not** post your homework solution code online to ask others for help. This includes public message boards, forums, file sharing sites and services, or any other online system.
- You are **not** to examine online solutions that you might find on the web.

Under our policy, a student who gives inappropriate help is equally guilty with one who receives it. Instead of providing such help, refer other students to class resources (lecture examples, the textbook, TA office hours, or emailing a TA or instructor). You must also ensure that your work is not copied by others by not leaving it in public places, emailing it to others, posting it on the web, etc.

If you are taking the course a second time, you are allowed to submit a previous solution that you authored unless that program was involved in a case of academic misconduct. For any assignment where academic misconduct was involved, you have to write a new version of the program. We enforce this policy by running similarity-detection software over all submitted student programs, including programs from past quarters.

Penalty

Any submission found to be in violation of this policy will receive a grade of 0. In addition, students will forfeit the ability to resubmit work that is found to be in violation. Repeated or egregious violations of the policy will be forwarded to a relevant university committee for further action. There will be no exceptions or modifications to these penalties.

Amnesty

The course staff has endeavored to create an environment in which all students feel empowered and encouraged to submit their own work, regardless of the quality, and avoid prohibited collaboration. However, despite our best efforts, students may occasionally exercise poor judgment and violate this policy. In many cases, these students come to regret this decision almost immediately. To that end, we offer the following opportunity for amnesty:

If you submit work that is in violation of the academic conduct policy, you may bring the action to the instructor's attention within 72 hours of submission and request amnesty. If you do so, you will receive a reduced grade on just that assignment but no other further action will be taken. This action will not be shared outside of the course staff and will not be part of any academic record except in the case of repeated acts or abuses of the policy.

This policy is designed to allow students who have acted in a way they regret the opportunity to correct the situation and complete their work in a permitted way. It is not intended to provide forgiveness for violations that are detected by the course staff, nor to be invoked frequently. It is still in your best interest to submit whatever work you have completed so that you can receive feedback and support.

Note that, while requesting amnesty will allow you to resubmit your work, the resubmission must still not violate the collaboration policy. In particular, the resubmission must only include work that is your own. It is extremely difficult to "unsee" or "forget" work that you may have viewed in violation of the policy, and it is your responsibility to ensure that your resubmission is completed entirely in accordance with the policy. (Needless to say, the easiest way to achieve this is to not violate the policy in the first place!)

Course Climate

Extenuating Circumstances: "Don't Suffer in Silence"

We recognize that our students come from varied backgrounds and can have widely-varying circumstances. If you have any unforeseen circumstances that arise during the course, please do not hesitate to contact the instructor to discuss your situation. The sooner we are made aware, the more easily we can provide accommodations.

Typically, extenuating circumstances include work-school balance, familial responsibilities, health concerns, or anything else beyond your control that may negatively impact your performance in the class. Additionally, while some amount of "productive struggle" is healthy for learning, you should ask the course staff for help if you have been stuck on an issue for a very long time.

Life happens! While our focus is providing an excellent educational environment, our course does not exist in a vacuum. Our ultimate goal as a course staff is to provide you with the ability to be successful, and we encourage you to work with us to make that happen.

Inclusion

All students are welcome in CSE 143 and are entitled to be treated respectfully by both classmates and the course staff. We strive to create a challenging but inclusive environment that is conducive to learning for all students. If at any time you feel that you are not experiencing an inclusive environment, or you are made to feel uncomfortable, disrespected, or excluded, please report the incident so that we may address the issue and maintain a supportive and inclusive learning environment. You may contact the course staff or the CSE

academic advisors to express your concerns. Should you feel uncomfortable bringing up an issue with a staff member directly, you may also consider sending anonymous feedback or contacting the UW Office of the Ombud.

Disabilities

Your experience in this class should not be affected by any disabilities that you may have. The Disability Resources for Students (DRS) office can help you establish accommodations with the course staff. If you have already established accommodations with DRS, please communicate your approved accommodations to me as early as possible so we can discuss your needs in this course.

Religious Accommodations

Washington state law requires that UW develop a policy for accommodation of student absences or significant hardship due to reasons of faith or conscience, or for organized religious activities. The UW's policy, including more information about how to request an accommodation, is available at Religious Accommodations Policy. Accommodations must be requested within the first two weeks of this course using the Religious Accommodations Request form.