

CSE 143: Computer Programming II

Syllabus, Winter 2019

Instructor	
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Office:	CSE 444
Office Hours:	Mon: 11:30am – 12:30pm Tues: 10:30am – 12:00pm or by appointment .

Course Website
https://cs.uw.edu/143 Check frequently!

Lecture
KNE 120 on MWF 1:30 PM – 2:20 PM
KNE 120 on MWF 2:30 PM – 3:20 PM

Registration Questions: Email cse143@uw.edu
Textbook: Reges/Stepp, <i>Building Java Programs (4th Edition)</i>

Course Overview

This course is a continuation of CSE 142. Prerequisite: CSE 142 or equivalent. 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 trade-offs in examining 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 structure and using components from the Java Collections Framework.

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, please contact the course staff or the CSE academic advisors. You should feel free to email any member of the course staff or the advisors at any time, and anonymous feedback can be sent to the course staff via the form linked on the course website.

Lectures

Lectures will be the place where you are first introduced to new concepts. It is not expected that you have mastered the material by the end of lecture because mastery requires practice. To encourage students to actively participate in their learning during lectures, we will be using PollEverywhere polls in class as opportunities to solve problems that help you check your understanding; these polls are **not** graded on participation or correctness.

Students in previous quarters found these polls immensely helpful to their learning, however they do take up a small amount of time to administer. To ensure you see all of necessary course material, we have moved small amounts of the lectures into short readings that you are expected to read *after* that lecture and *before* the next. These readings shouldn't be too difficult and should take less than 10 minutes a day. On the course calendar, these readings are marked as required (**Req**). Material covered in those readings are considered the same as material covered in lecture and it may show up on the homeworks and how they are graded or the exams. There are also references to supplementary (**Sup**) readings that can be a great resource to help you learn the material if you were lost in lecture, however these readings are not required.

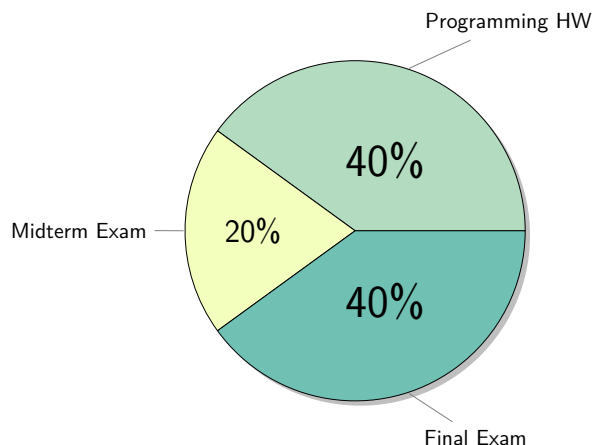
In the lecture room students should keep talking to a minimum and are limited in their use of electronic equipment. Students who want to use cell phones or laptops will be required to sit in the last four rows of the classroom. These policies may seem strict, but are there to ensure a productive learning environment for **all** the students in the classroom. There is an exception to these rules during a PollEverywhere poll, however electronics should be put away between polls. If it is important to you to use your laptop during lecture, email Hunter to describe your situation and request an exception. TAs will periodically enforce this policy during lecture.

Discussion Section

You will be expected to participate in two weekly 50-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.

Assessments

Every homework we give you has a very important purpose to your understanding of the material. Here's a handy pie chart that explains how your grade will be calculated:



This maps to the 4.0 scale roughly as follows:

We might make these cutoffs more lenient.

90%: at least 3.5

80%: at least 2.5

70%: at least 1.5

60%: at least 0.7

Programming HW consists of weekly, individual assignments. Programs will be graded by *code review*; graders will review behavior and adherence to the CSE 143 style guidelines. Disputes about homework grading must be made using the grading complaint form within 2 weeks of receiving the grade. *We do not* drop any homeworks.

Exams will be closed-book and closed-note. You may not use the textbook, notes or any other written material during exams. No electronic devices may be used, including calculators. 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.

Make-up Exams will not be given except in case of a serious emergency. If you expect to be accommodated, you must contact Hunter before the exam (even due to injury or sickness). You must provide evidence that you are physically unable to take the exam (e.g. a clear doctor's note mentioning the date and reason). No make-ups will be granted for personal reasons (e.g. travel, leisure) No special accommodations will be made for students who arrive late to exams, regardless of reason. No student will be permitted to take an exam early for any reason.

Late Days

Each student receives 5 "late days" for use on homework assignments. A late day allows you to submit a program up to 24 hours late without penalty. For example, you could use 2 late days and submit a program due Thursday 11:30pm on Saturday by 11:30pm with no penalty. Once a student has used up all the late days, each successive day that an assignment is late will result in a loss of 5% on that assignment. Regardless of how many late days you have, **you MAY NOT submit a program more than THREE days after it is due** or after the last day of class. Students will not be given extensions unless they have extenuating circumstances as decided by the instructor.

Getting Help

Please don't be afraid to ask for help if you don't understand something. Hunter holds *at least three* office hours a week and the TAs staff the IPL for the majority of the week.

At office hours (or the IPL, see below), you can ask for clarification on a lecture (or for a *repetition* of the lecture!). You can ask for help with a frustrating part of the homework. You can even show up just to tell us you're frustrated and vent.

Here's some first steps on how to get help:

- Come to Hunter's office hours
- Ask someone on course staff questions before/after lecture, before/after section, etc.
- Post on Piazza asking a question
- Visit the IPL

What/Where/When is the IPL?

The department operates an Introductory Programming Lab (IPL) in room 334 of Mary Gates Hall. TAs will be available at the lab to help students with problems. It is open almost every day of the week, and you can find a link to the exact schedule on the course website.

Academic Integrity

Programming HW must be completed **individually**; all code you submit must be your own work. You may discuss general ideas of how to approach an assignment, but never specific details about the code to write. Any help you receive from or provide to classmates should be limited and should never involve details of how to code a solution. It should also not be in front of a computer.

Here's some do's and don'ts:

- **DO NOT** work as a partner with another student on an assignment.
- **DO NOT** show (or send!) your solution to an assignment (or look at someone else's solution) for any reason at any time. EVER.
- **DO NOT** sit with someone (current or former students, tutors, friends, TAs, paid consultants, people on the Internet, or anyone else) and "walk through" an assignment, or describe in detail how to solve it.
- **DO NOT** post any piece of solution code anywhere online (on Piazza, on message boards, forums, file sharing sites and services, or any other online system).
- **DO** post questions about specification on Piazza.

Please note that *both parties* involved in a cheating case are treated equally. That is, helping someone else cheat is *just as bad as reading someone else's solution*. There are many resources for students who are struggling, and the right thing to do in this situation is to point them to these resources.

If you are retaking the course, you may resubmit a previous solution unless that program was involved in an academic misconduct case. If misconduct was found, you must write a new version of that program.

We enforce this policy vigorously by running similarity detection software several times per quarter over submitted student programs. Students who violate the policy are offered reduced scores and sent to a University committee. This leads to marks on permanent academic records. If you're not sure if you're following the policy, ask.