

CS 152: Principles of Computer Science II (4)
TR 9:20-10:50am G35
Westminster College, Spring 2007

Instructor:

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Prerequisite: CS151

Text:

David Allen Weiss *Data Structures and Algorithm Analysis in Java, 2e*, Addison-Wesley (2007).

Web page: <http://www.cs.westminster.edu/~shaffer/Courses/CS152>

Content:

- Mathematics and Java review: Chapter 1
- Algorithm analysis: Chapter 2
- Empirical analysis of algorithms: Supplemental materials
- Lists, stacks and queues: Chapter 3
- Applications of stacks and queues: Supplemental materials
- Trees: Chapter 4
- Applications of trees: Supplemental materials
- Priority queues and heaps: Chapter 6
- Applications of priority queues: Supplemental materials

Your responsibilities:

- Read ahead and understand text material.
- Complete/master the text, homeworks, and projects.
- Seek help **immediately** if you are struggling.
- Learn the material (sometimes in spite of presentation format).
- Substantial work outside of class.

Attendance: You are expected to attend all classes. Attendance will not constitute part of your grade but failure to attend will result in no credit for missed assignments, tests, quizzes etc. Additionally, failure to attend will probably result in poorer performance on exams. **I do not provide class notes to students who miss class, excused or unexcused.**

Grading:

Letter grades are assigned based on the percentage of the available points that you receive. The grading scale is fixed. **I do not curve.** The grading scale is as follows:

Letter	Percentage	Letter	Percentage
A	[92,100]	A-	[90,92)
B+	[88,90)	B	[82,88)
B-	[80,82)	C+	[78,80)
C	[72,78)	C-	[70,72)
D	[60,70)	F	[0,60)

Below is an **approximate** breakdown of the point distribution of the material:

Programming projects, homeworks, quizzes	50%
Midterm exam	25%
Final exam	25%

Projects:

There will be approximately 5 projects during the semester worth 15 to 45 points each. These are graded based on completeness and quality of work. It is your responsibility to thoroughly test your solutions to the problems.

“Open” projects: These are designed for learning purposes only and you may cooperate with others to any extent that you desire. I highly recommend that you complete as much of these projects on your own as you can since you will need to master this material for quizzes, exams etc.

“Individual” projects: Absolutely no cooperation is permitted on individual projects. Keep your work to yourself and don't copy or seek help from others. You are not permitted to use any person's help or code, except help which I provide to you specifically, in completing your projects. You are not permitted to discuss your solutions to these projects with anyone else. These rules extend beyond students in our class. That is, you are not permitted to seek help from friends, tutors etc.

“Group” projects: Absolutely no cooperation is permitted outside of your pre-assigned group. Keep your group's work to yourself and don't copy or seek help from anyone outside of your group. You are not permitted to discuss your solutions to these projects with anyone who is not in your group. If any individual member of a group breaks these rules the entire group may be held responsible. These rules extend beyond students in our class. That is, you are not permitted to seek help from friends, tutors etc.

Should you ever find yourself questioning whether you, another group member, or another class member have been completely honest (in accordance with the above policies) in the completion of a project please come talk to me **right away**.

Academic policies:

The department of Mathematics and Computer Science has a set of guidelines regarding academic honesty which can be found at: <http://www.westminster.edu/staff/bonomojp/cheating.html>

Unless otherwise specified all exams and projects must be entirely individual work. “Verbal” cooperation on lab projects is encouraged but the exchange of programs or program fragments either electronically or by visual inspection is not allowed. Keep your work to yourself and don't copy from others.

Cheating on exams, quizzes or projects will result in a grade of 0 (zero) for that item. All academic policies offenses will be referred to the college dean.

Special note: Special attention should be paid to the policies on projects discussed above. That is, if you violate the policies regarding projects, I will report the incident to the Dean of the college and you will receive no credit for that project. In many cases it is, quite frankly, fairly easy to identify cases of cooperation so **DON'T DO IT**.

Disabilities and special needs: I will make any necessary, reasonable accommodations for students with disabilities.

If you have a disability which requires accommodations, it is your responsibility to indicate to me that you have a disability and to discuss with me what special needs you might have regarding this class. In addition to notifying me, if you have a disability which requires class accommodations, you must make it known to Westminster College's student affairs office so that they can send me the proper paperwork.

Exam dates: Our midterm exam will be Thursday March 1. Final exam is scheduled for Friday May 11 at 8am.