

CS 158 Syllabus Spring, 2010

Prof. Caristi
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Class webpage: <http://faculty.valpo.edu/jcaristi/cs158>

Office hours (tentative): 9:00 daily

Text: **Data Structures in Java** by Simon Gray. We will cover most of the book.

Grading: 3 exams @ 20% each	= 60	
Final Exam	= 20	8:00 – 10:00 Saturday May 8
Assignments, Quizzes, etc.	= 20	

Exam 1 will be Tuesday, February 9.
Exam 2 will be Thursday, March 25.
Exam 3 will be Thursday, April 22.

Honor Code Regulations: For **assignments** anything is authorized aid, provided you do not take something without permission. You are encouraged to work with others on all assignments. For **exams, only the instructor is authorized aid unless additional indications are given.**

Basically, 90% or better is an A, 80% or better a B, etc. But I do adjust the borders between letter grades to avoid separating people whose final scores are extremely close.

Attendance is extremely important in this course. If you have to miss class for any reason, it is **your** responsibility to get notes from someone else in the class, preferably before the next class period. Also, you need to keep up with programming assignments. Not all assignments are collected or evaluated, but all assignments should be completed, and you should know whether they are correct based upon the tests that you write. You need to be writing some Java code every day.

If there is a problem with the computers or other equipment on campus, certainly contact IT or Gellersen staff as appropriate, but also please let me know. Often I am unaware of difficulties occurring in other buildings unless someone tells me. Also please let me know if you encounter problems in computer availability.

If you do run into a serious personal crisis or illness, you should contact the office of the Dean of Student Affairs. This office can help you in resolving problems and in contacting all of your instructors. Also don't hesitate to use the services of the Counseling Center when needed.

Please be sure to check your e-mail at least daily. Occasionally I will send out clarifications or other information that would be very beneficial to know before the next class period.

Goals of CS 158:

1. To develop more skills in complex program development.
2. To introduce more complex data structures and types.
3. To increase competence in Java programming.
4. To develop good programming practices.

Topics covered in CS 158: (not in any particular order)

Program development using software engineering tools and OO design

Analysis of algorithms

Program correctness and testing

Classes and abstract data types

Introductory data structures: arrays, heaps, strings, linked lists, stacks, queues, maps, trees, graphs

Recursion

Sorting and searching

Invariants

Inheritance and polymorphism