CSCI 151 Fall 2012
Principles of Computer Science II

Course Staff

Instructor: Alexa Sharp
Office: King 223 C
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Office Hours: M 1:30pm - 3:30pm, T 12:00pm - 1:30pm, F 3:30pm - 4:30pm

Lab Instructor: Cynthia Taylor
Lab Helper (Monday): Liz Bennett
Lab Helper (Tuesday): Sinem Semsioglu

Overview

This course builds upon the principles introduced in CSCI 150 and provides a general background for further study in Computer Science. The course will cover object-oriented programming concepts; the design and implementation of data structures (linked lists, stacks, queues, trees, heaps, and hash tables) and related algorithmic techniques (searching, sorting, recursion); and algorithm analysis. Students will be expected to complete a number of programming projects illustrating the concepts presented.

Course Resources

We are using Weiss’s Data Structures & Problem Solving Using Java 4e, published by Addison Wesley, 2009. If you find a copy of the third edition, that will work just perfectly as well.

The current schedule, readings, labs, helper hours, and announcements will be posted on the course webpage: www.cs.oberlin.edu/~asharp/cs151/index.html.

Course Requirements

Eleven labs — expect to spend up to 8 hours per week outside of class on each.
Nine prelabs — expect to spend an hour on each prelab before you start the lab proper.
Two in-class tests — expect some algorithmic thinking and coding questions.
One final exam — expect a longer test.
Weekly attendance — expect to be at each lab session every week.

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<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Labs and Prelabs</td>
<td>60%</td>
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<tr>
<td>Midterms</td>
<td>16%</td>
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<td>Final Exam</td>
<td>16%</td>
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<td>Attendance and Participation</td>
<td>8%</td>
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Late Policy

Late prelabs will not be accepted.
Late labs are strongly discouraged. You may hand up to two labs one day late, after which they are penalized up to 10% per day.

If for some reason (such as illness) you are unable to complete a lab or take a test, please talk to me as soon as possible. I will handle these situations on a case-by-case basis.

Outside Help

There are many opportunities for you to learn the course material outside of our scheduled class and lab times. For help on your labs, we have some weekend and evening lab lab helpers whose job it is to answer questions in the lab. You should still try to solve your problems on your own (see the course website for some tips), but these students can help you when you need a little push. See the website for their schedule.

There are peer tutors available, provided for free by Oberlin College. If you think you’d like such a tutor, contact Kay Knight in Peters 118 and she’ll help hook you up.

Student Disabilities

If you require special accommodation (such as additional time to complete exams), please speak to me during the first week of class so that I have time to make suitable arrangements. You must be registered with Office of Disability Services.

Honor Code

I take the honor code very seriously, and will report any violations to the Honor Code Committee. In general, it is OK to talk with other students about the labs, but you have to be very careful about how much you collaborate. Discussing an algorithm, approach, or general form of code is acceptable. However, cooperation should never involve other students possessing a copy of all, or a portion of, your work, regardless of format. As a rule of thumb, when working with others, try not to write or type anything down; you should be able to recreate your discussion without anyone’s help. Please do not hand in work done with (or by) someone else under your own name, including from previous semesters. Symmetrically, you may not share your current work with students in future semesters. You may base your lab design off the textbook’s example. This is OK if you cite the source in the code. Sources should be cited including the textbook and other web sites, when you use them.

Please don’t break the rules. We trust you, and hope this trust won’t be violated. If you are unsure about anything, please ask. Please go to the course website to view in full how the honor code is interpreted for this course.

Every submission must include the Honor pledge:

“I affirm that I have adhered to the Honor Code in this assignment.”