Instructor: David Chiu
Email: dchiu@pugetsound.edu
Office Hours: Open door or by appointment

Meeting Times: MWF 10:00-10:50 in TH 409 and Th 11:00-12:50 in TH 409
Course Page: http://cs.pugetsound.edu/~dchiu/CS161
Moodle: http://moodle.pugetsound.edu

1 Course Information

This course is an introduction to computer science and programming. The programming language Java is used to illustrate concepts in computer science. The course emphasizes the use of the computer as a problem-solving tool and the development of good programming style. CS 161 is the introductory course for students planning to major or minor in computer science. A weekly laboratory is required.

Prerequisites

Three years of high-school mathematics, MATH 110 Pre-Calculus, or equivalent.

Textbook

- David Barnes and Michael Kölling. Objects First with Java: A Practical Introduction Using BlueJ. 5th Ed. (Required)
- Cay Horstmann. Java Concepts: Early Objects. (Supplemental)

Course Topics

- Overview and history of computing
- Object-oriented programming
- Elementary arithmetic manipulation
- Conditional logic
- Loops
- Methods
- Arrays (including 2D arrays) and basic data structures
- Debugging and programming practices
2 Grading

The following grade cutoffs are upper bounds - they might come down, but will not be set higher: A = 95, A- = 90, B+ = 87, B = 83, B- = 80, C+ = 77, C = 73, C- = 70, D+ = 67, D = 64, D- = 60, F = < 60. Your overall grade will be composed as follows:

<table>
<thead>
<tr>
<th>Assignment</th>
<th>% Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discretionary</td>
<td>5</td>
</tr>
<tr>
<td>Lab Assignments</td>
<td>15</td>
</tr>
<tr>
<td>Programming Assignments</td>
<td>25</td>
</tr>
<tr>
<td>Midterms (x2)</td>
<td>35</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20</td>
</tr>
</tbody>
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Table 1: Breakdown of Grades

Assignments

- **Lab Assignments (Paired)** – You will pair up with another student and switch roles throughout the lab. Lab assignments are downloadable from the class page and are always due the Friday after lab at 23:59, unless stated otherwise. Labs are graded on a 10 point scale.

- **Homework Assignments (Work Alone)** – You will work alone on all homework assignments. Collaboration among students is encouraged for problem interpretation, brainstorming, etc., but in general, I expect every student to submit their own work. That is, do not share code!. There will be no extensions for assignments.

- **Late Work** – For each day either a homework or project assignment is late (includes weekends), a 10% deduction will be assessed, and no late work will be accepted one week after the due date.

Exams

There will be two midterms and a final exam — all cumulative. They will cover material discussed in lectures, labs, and assignments. You are allowed a calculator and a half page of notes (front and back) on all exams.

Discretionary Points

Discretionary points will be given based on your...

- Attendance
- Class participation
- Turning in all assignments on time
- Refrain from activities that can disrupt others, e.g., texting, playing games on your laptop, etc.

3 Course Policies

Class Disruptions

I understand the student’s need to have their phone on them to answer the occasional important call. I do ask that you please have your phones on vibrate and take the call outside the classroom out of respect for your fellow students. For each disruption-free period, I will reward you with bonus problems on the exams.
Academic Integrity

You should be aware of the Student Integrity Code at the university. Any suspected cheating (e.g., plagiarizing code, copying homework solutions, etc.) will be reported to the Registrar, which may result in possible suspension/expulsion. See this link for more info:

Student Accessibility and Accommodation

If you have a physical, psychological, medical or learning disability that may impact your course work, please contact Peggy Perno, Director of the Office of Accessibility and Accommodation, 105 Howarth, 253.879.3395. She will determine with you what accommodations are necessary and appropriate. All information and documentation is confidential.

Classroom Emergency Response Guidance

Please review university emergency preparedness and response procedures posted at . There is a link on the university home page. Familiarize yourself with hall exit doors and the designated gathering area for your class and laboratory buildings.

If building evacuation becomes necessary (e.g. earthquake), meet your instructor at the designated gathering area so she/he can account for your presence. Then wait for further instructions. Do not return to the building or classroom until advised by a university emergency response representative.

If confronted by an act of violence, be prepared to make quick decisions to protect your safety. Flee the area by running away from the source of danger if you can safely do so. If this is not possible, shelter in place by securing classroom or lab doors and windows, closing blinds, and turning off room lights. Lie on the floor out of sight and away from windows and doors. Place cell phones or pagers on vibrate so that you can receive messages quietly. Wait for further instructions.