CS 273: Computer Science Laboratory
Spring 2014 Syllabus

	Section A	Section B	Section C
Meeting time	M 2:40-5:40pm	T 9:45am-12:45pm	M 6:10-9:10pm
Instructor	Jason Favors	Steve Vegdahl	Kyle Kearney
Office	Shiley 214	Shiley 218	Shiley 214
Email	favors@up.edu	vegdahl@up.edu	kearneyk@up.edu
Office Hours	M 1:30-2:30pm	M 11:30am-1:00pm T 8:00-9:30am W 8:00-9:00am F 1:00-2:00pm	T 7:45-8:45pm (January) R 7:45-8:45pm (Feb-Apr)
Lab Assistants	Matthew Wellnitz	Alexandra Warlen Kirkland Spector	Sam Golloway Tyler Honsinger

Course website: https://learning.up.edu/moodle/course/view.php?id=11812

1. Bulletin Description
As quoted from university bulletin, "Weekly three-hour laboratory to support CS203. (Corequisite: CS203)." Lab exercises cover fundamental programming concepts in Java including strings, arrays, graphics, methods and classes, inheritance and file I/O.

2. Student Outcomes
By the end of the course, students should be able to design, write, execute, and debug Java programs involving variables, arrays, conditional statements, loops, 2D graphics, methods and classes, inheritance, recursion and file I/O. The course utilizes in-class laboratory exercises and Prelab quizzes to assess a student's ability to perform these tasks.

3. Methods of Assessment
Each week, students will:
  a. Complete the Prelab quiz for the current week. The Prelab quizzes open at 6:00 pm of the Monday of the previous week, and are due at the beginning of each lab; they are to be completed on the course Moodle site. Students are given two chances to complete the quiz; score earned is the average.
  b. Arrive to class and receive a partner assignment from the instructor.
  c. Review the "Slides for the Week" available on the course Moodle site.
  d. Download the .zip file containing the source files for the current week.
  e. Use the "Lab Instructions" for guidance on how to complete the current week's in-class laboratory exercise. Each exercise comprises a set of checkpoints. Each time a checkpoint is reached, students should have an instructor or lab assistant verify the checkpoint is working. In some cases, it may take time to get an instructor or lab assistant to review a checkpoint. In such cases, students are invited to:
     • Test the checkpoint thoroughly to ensure that it is *actually* working.
     • Wait patiently.
     • Make a copy of the code for backup and move on to the next checkpoint.
  f. *Leave*. Students should not wait around for friends as this often results in too much helpful helping.

4. Textbooks
There is no textbook for this course, but it is recommended that students bring the CS203 textbook so that it may be used as a reference during lab.

5. Grading Standards
Graded work will consist of: Prelab quizzes (12 total, 15%) and in-class laboratories (13 total, 85%). There are no midterm exams or final exam for this course. Course grades will be assigned based on the total points you earn during the semester divided by the total possible points. The minimum cutoffs for grades will not change.

	>= 87.5% B+	>= 77.5% C+	>= 67.5% D+	
>= 92.5 A	>= 82.5% B	>= 72.5% C	>= 62.5% D	< 60% F
>= 90% A-	>= 80% B-	>= 70% C-	>= 60% D-	

There are multiple opportunities for extra credit in this course. To receive 100% on the in-class laboratory portion of the grade, you must earn 1300 points. If you earn over 1300 points on your in-class laboratories, the additional points shall be rolled into your CS203 homework grade. (See CS 203 syllabus for details.)

6. Course Topics and Schedule.

Week	Sections A and C (Monday)	Section B (Tuesday)
January 13/14	Lab 1. Intro. to BlueJ and Java	Lab 1. Intro. to BlueJ and Java
January 20/21	Lab 2. String Operations	Lab 2. String Operations
January 27/28	Lab 3. Introduction to Graphics	Lab 3. Introduction to Graphics
February 3/4	Lab 4. Selection	Lab 4. Selection
February 10/11	Lab 5. Iteration	Lab 5. Iteration
February 17/18	Lab 6. Debugger I	Lab 6. Debugger I
February 24/25	Lab 7. Arrays (Part 1)	Lab 7. Arrays (Part 1)
March 3/4	Lab 8. Arrays (Part 2)	Lab 8. Arrays (Part 2)
March 10/11	*no lab – Spring Break*	*no lab – Spring Break*
March 17/18	Lab 9. Methods and Classes	Lab 9. Methods and Classes
March 24/25	Lab 10. Debugger II	Lab 10. Debugger II
March 31/April 1	Lab 11. Inheritance	Lab 11. Inheritance
April 7/8	Lab 12. Java Libraries	*no lab – Founders Day*
April 14/15	Lab 13. Recursion and File I/O	Lab 12. Java Libraries
April 21/22	*no lab – Easter Monday*	Lab 13. Recursion and File I/O

There is no final exam for this course.

7. Conduct, Attendance and Tardiness
You instructor is committed to a classroom in which students are encouraged to express a variety of ideas and opinions. To achieve this, students and instructors alike are expected to participate in classroom activities and demonstrate mutual respect. Those who do not meet this expectation may be excused.

Students are assigned partners so that they may work in teams to complete the in-class laboratory exercises. (Exception: the first week's lab is done individually.) The intention is that teams of two use Pair Programming techniques to complete the exercises. For each checkpoint, students work together on

a single solution. One student is in charge of the keyboard, typing code. The other is in charge of the mouse, offering guidance. At the end of the checkpoint, the students switch places.

Because there may be an odd number of students in the class, there may be a student who works solo. The assignment of the solo student will be as follows:
- If an odd number of students are registered in the class, a different student will be pre-assigned as a solo student each week.
- If a student is absent or late, that student's pre-assigned partner may be assigned to pair with the pre-assigned solo student.
  - Once this pairing is done, it is final. A student who subsequently arrives late can expect to do the lab solo.

Some students, when working in pairs, choose to work on separate machines. This is acceptable. However, before the pair of students may be "checked off", **both students** must have a fully-functional checkpoint.

Proactive behavior is rewarded. If you miss class, you may submit your laboratory exercises up to one week late with a 10% penalty. If you let your instructor know of your absence *in advance*, you will be given one week to make up your laboratory exercises without penalty. Labs will **not** be accepted beyond one week late unless the student has discussed a special exception with the instructor. Prelab exercises may not be submitted late.

8. Standards of Conduct and Academic Integrity
The following is taken from the University of Portland's Code of Academic Integrity:

Academic integrity is openness and honesty in all scholarly endeavors. The University of Portland is a scholarly community dedicated to the discovery, investigation, and dissemination of truth, and to the development of the whole person. Membership in this community is a privilege, requiring each person to practice academic integrity at its highest level, while expecting and promoting the same in others. Breaches of academic integrity will not be tolerated and will be addressed by the community with all due gravity.

The University expects each faculty member and each student to engage in and promote scholarship in such a way that peers and experts will recognize his or her work as a scholarly undertaking, thorough and consistent with regard to the standards of one's discipline, appropriately cautious and self-critical, and cognizant and respectful of the contributions of others, including differing or opposing points of view.

In terms of this course, this means
- You are expected to conduct yourself in a professional and courteous manner.
- You are encouraged to engage in oral discussion of class material with other students and faculty, but the lab should be completed by you (and your partner, when working in pairs). You should not be looking at other teams' work. Do not send or show your solution to other students, and do not permit other students to send or show their solutions to you.
- You may not represent as your own work material that is copied from any other source, including persons, books, or web pages. All material taken from other sources must be properly attributed, including source and page number (if applicable). This includes material quoted from your textbook.

If you have any questions about acceptable collaboration, ask first.

9. Accommodation for Disability
If you have a disability and require an accommodation to participate fully in this class, please contact the Office for Students with Disability, located in the University Health Center (503-943-7134) as soon as

possible. If you have an OSWD Accommodation Plan, you should make an appointment to meet with me to discuss your accommodations. Also, you should meet with me if you wish to discuss emergency medical information or special arrangements in case the building must be evacuated

10. University's Assessment Disclosure Statement
Student work products for this course may be used by the University for educational quality assurance purposes.

11. Feedback Appreciated!
Your success is important to us. The intention for CS273 is that its exercises are challenging, but do-able. If you have any suggestions for improvement, talk to your instructor about it. Your comments and suggestions are welcome.