Syllabus for CSC 142 Winter 2015

Meeting times: M, W, Th in room SAM 202 from 3:00 to 3:50pm
Lab from 3:00 to 4:40 pm in room SAM 202 on Tuesday

Instructor: Isaac Ziskin

Office Hours: After class in SAM 202 or SAM 411 by appointment

Email: Isaac.Ziskin@seattlecolleges.edu

Textbook: Recommended (but not required): "An Introduction to Object-Oriented Programming with Java" by C. Thomas Wu (McGraw-Hill). The reading mentioned at the beginning of the slides is from this text.

Prerequisites: MAT 141 and CSC 110 with 2.0 or better

Learning outcomes: After successful completion of this course, students will be able to do the following:

- Explain basic object-oriented programming concepts, such as class, object, instance method and field.
- Describe and analyze the structure of a Java program.
- Draw class and object diagrams.
- Solve problems involving loops, conditionals, and arrays, and basic data structures such as Strings and ArrayLists.
- Read, analyze and use code written by others, such as the Java API
- Design, code, run, test, analyze, debug and document complete programs.
- Explain inheritance between two classes or between a class and an interface.
- Apply these concepts to solve a variety of programming problems.

The computer language that we will be using is Java.
Course Content: Here is a (tentative) list of topics that we will cover: creation of objects and method calls; defining new methods, classes, and objects; expressions, values, and types; conditionals; iterations; 1- and 2-D arrays; as well as possibly a brief introduction to sorting, recursion, graphics, event-driven programming and other topics.

Course Format: We will meet three times a week for an interactive lecture. There is also a 2 hour lab, during which you will have the opportunity to apply the concepts covered in lecture.

Grading: About 5 Quizzes: 15%
3 Exams: 20% each
Homework: 25% (10% written exercises, 15% programs)

For this scale to apply, you need to achieve an average of 2 on your exams alone and on your homework alone. If not, you will receive the lower of the two averages.

Exams: There will be about 5 quizzes, and 3 exams. They will possibly include true/false questions, multiple choice questions and short problems. Exam dates will be given later in the quarter.

There won't be any makeup quizzes or exams.

Homework: Homework will be assigned every one or two weeks. It will consist of written problems, or a problem to solve by writing a program.

Though you may discuss how to approach a problem with other students in the class (and I encourage you to do so), your program has to be yours. Never copy down the program of somebody else's and claim it as your own work. This would be an instance of cheating. You will have the opportunity to work in a group for the last assignment.

Your homework (written exercises and programming projects) must be turned in on time.

Resources: I recommend the textbook by Wu, as well websites such as PracticeIt and CodingBat. Dr. Lepeintre's website has many other useful resources listed at:
http://seattlecentral.edu/faculty/flepeint/javaclass/resources.html
Special Assistance: Students with documented disabilities requesting class accommodations, requiring special arrangements in case of building evacuation, or have emergency medical information the instructor should know about are asked to contact the disability support services office (DSS) in Rm. 1112. Once the disability is verified with DSS you will be given a letter of accommodation that should be handed to your instructor.