CSIS 24 Java Programming, Spring 2012

Catalog Description: Introduction to Java programming. Includes learning the Java environment, using and creating Java applets, and writing stand-alone applications. Covers the Java environment, object-oriented programming, language basics, classes, interfaces, packages, threads, and exceptions. This course has the option of a letter grade or credit/no credit.

Instructor: Alex Stoykov
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Class Hours: The Spring class is hybrid class, which means you can take it as an Online class, or Lecture class. Lectures are **Tuesdays 2pm to 5 pm** on the Gilroy campus, room **BU118**.
You can sign up for the online or lecture version of the course, then attend lectures if you need them. You can do the entire class online. We will be working in a computer lab where you can do your homework, and get help from me on your assignments. I will answer your questions via email, or after class.

Assignments: All assignments including the class Green Sheets are stored at http://ilearn.gavilan.edu

Instructor class description: This class is a beginning programming class. We will work through much of the assigned textbook. You will need the textbook the first meeting of class. Without prior programming experience this can be a time consuming class, but previous experience with a programming language would make the class much easier.

Student Responsibilities: If you are taking the lecture version come to class. Read the text. You need to spend several hours <u>every</u> week on this class. If you disappear AND stop working on this class, I may drop you**.**

<u>**Texts & Materials**</u>: **Object-Oriented Program Development Using Java: A Class-Centered Approach**, by Gary Bronson, Course Technology, 2005, ISBN: 0-619-21720-0. You need the textbook as soon as possible, because all assignments will be from the book. The book is available for very cheap from http://www.amazon.com or http://www.half.com.

The most common characteristic of people that do not pass this course is that they did not buy a textbook. It is like trying to make a long trip without a map - very difficult and in this case impossible. Another Java Programming book would be useful for reference.

You can save yourself a lot of wasted time and learn a lot more if you **read the textbook.**

Obtaining software: You can obtain a free copy of the Java compiler from www.java.sun.com. Select Java SE. You need to install this Java compiler on your computer if you plan to work at home. You can also do your work at the computer labs at the college.

Attend class: Do not get behind in the class. The class is accumulative. What you learn this week will be used to do the work next week. If you miss classes you will soon be lost. **Plan to miss no classes.** In Online classes, attending class means logging into the class each week and doing the assignments.

Grading: This course has Credit/No Credit Option. You will normally get a grade in the class, but if you fill out a Credit/No Credit petition before 1/3 of the class has passed, you can take the class for credit/no credit. Petitions are available at the office or registrar. Please tell me if you do request a Credit/No Credit Option. In order to get a Credit, you need to earn at least a C grade.

If you want or need a good grade because you want to transfer to a 4-year school, are on academic probation, want a scholarship, or just want good grades **do the work** for a good grade. Don't bother telling me you need a good grade the last week if you have not done the work for a good grade.

Course Grading Method
This class will be graded according to the following method:

C grade, finish Chapters 1-7, and sections 8.1 and 8.2 on arrays.
B grade, finish chapters 1-9
A grade, finish chapters 1-11.

To get those grades you need to obtain 90% on chapter work. If you do worse in an earlier chapter, you can do another chapter to make up for missed work.

If you decide to stop at a B or C grade, send me a message and confirm with me your potential grade.

Course Learning Outcomes: The student will create, execute, and test Java programs using calculations and decision statements. The student will create, execute, and test Java programs using loops and arrays. The student will create, execute, and test Java programs using functions. The student will create execute, and test Java programs using structures, classes, and objects. The student will create, execute, and test Java programs using standard input/output, character I/O and file I/O. The student will evaluate and select the best programming method to solve problems.

Incompletes: I seldom give incompletes and never give them just because you have not done the work. Almost no one ever finishes an Incomplete. Occasionally, people that have been doing the class work have severe family or personal problems and I do give them an Incomplete.

Drops: If you stop attending class, you must fill out a class drop form or you will get an F grade in the class. This does not do you, me, or the school any good. So if you stop taking the class, **drop** it at the A&R office, or the front desk at Morgan Hill.

Special needs: If you have special needs such as hearing problem, visual problems, or other needs, please tell me after class and I will try to assist you.

Resource Center."**Necessary math skills:** If you are having trouble doing the math needed to solve the problems in the programming exercises, then you should take Math 233, Intermediate Algebra. We have noticed that one common reason students do not succeed in programming classes is the lack of math skills need to write programming algorithms. At many 4-year colleges, potential Computer Science (CS) students must take one year of calculus before becoming a CS major.

Next classes to take: The next classes you might take are CSIS 45 C++ Programming and CSIS 54 Perl Programming. In both classes the language syntax is very similar to Java, so that will give you a big help in those classes. Also, consider CSIS 51 Visual Basic Programming which you should find easy and there are a lot of jobs in all three languages. If you have not taken any programming classes, CSIS 10 Basic Programming would be a good place to start.

ADA Accommodation Statement: "Students requiring special services or arrangements because of hearing, visual, or other disability should contact their instructor, counselor, or the Disability Resource Center."
Occupational/Vocational Statement: "Occupational/Vocational students – Limited English language skills will not be a barrier to admittance to and participation in Vocational Educational Programs."
Student Honesty Policy Reference Statement: "Students are expected to exercise academic honesty and integrity. Violations such as cheating and plagiarism will result in disciplinary action which may include recommendation for dismissal."