

UNIVERSITY OF COLORADO
Microcomputer (Java) Applications in Economics ECON4838-002
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[Web Link for Course Materials](#)

Class Introduction

This class assumes that students have no prior computer programming experience. By the end of the class, the student should have a good concept of programming basics using the Java language and the ability to code complex programs in Java. This class will not make the student an expert programmer in Java, but students will gain enough knowledge to build on if they desire.

Fundamentally, this is a programming class and to learn programming, you should expect to spend the majority of time writing computer programs for a PC. Lectures will be minimal and used to cover the basics that can then be used to develop functional programs. Economic theory will be integrated into the class as students will develop Java programs that relate to topics presented in other Economics courses.

Course Materials

The course textbook is:

- Java, Intro to Computer Science and Programming, by Savitch, Prentice Hall, 2005.

Useful Links

[Sun Microsystems Java Page](#)

[To download the Java SDK for your home PC](#)

- Choose the Download J2SE v 1.4.2 and the SDK (most students will select Windows (all languages, including English)). Be sure to choose the SDK and not the JRE.
 - Steps: click on the Download button -> Accept license -> Click to Download (Windows Installation, Multi-language (j2sdk-1_4_2_04-windows-i586-p-iftw.exe, 356.00 KB) and choose Open.
 - This starts the installation process and you will soon see a custom setup menu. You must install the Development Tools, but you will probably want to skip the Demos and Source Code.
 - The programs will be installed to the C:\j2sdk1.4.2 directory on your PC.
 - To verify that you have installed the program correctly, you should find a file named C:\j2sdk1.4.2\bin\javac.exe (and many other files and directories as

well)

[Eclipse](#) - Java programming environment. Choose Downloads from the left menu.

e.g. Download now: Eclipse SDK



8). The project will cover a simple economic model and this can be a variation of a model covered in the nine class units.

B - a student must complete all required class assignments (units 1 through 9). In addition, the class project will use more advanced programming concepts. The project will cover a model consistent with an intermediate macro or micro class or an advanced theory class.

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Class Outline

Java basics. Each day we will cover a basic concept of Java programming. Class materials will be complemented with short programming applications.

Applications. This will emphasize the development of more complex programs that relate specifically to Economic materials. Some class time will be used to discuss Java and Economic concepts. Students will work on relatively small projects dealing with statistical, financial and other applications.

Student Project. The emphasis will be on a siná e e