Opening Day

Mark Allen Weiss
Copyright 2000

Me

● Mark Weiss, Professor.
● Office Hours: Tue/Thu 2:00 - 3:15 and after 7:45 PM. ECS-355 / 305-FIU-2036.
● Can send email to weiss@fiu.edu; I check relatively often. NO DEBUGGING.

What's this Course and Is it For Me?

● COP-3338 Programming III
  - Formerly Advanced Programming
  - Object-oriented techniques and an introduction to Java
  - Required for CS Majors and Minors
  - Lots of work
● Prerequisite: COP-3337 Programming II, with at least a C. Should understand some OO already in C++.
● Professionals with OO background probably ok.
Grading

- Assignments
  - Some won’t be graded; others will
  - Grading based on whether program works according to spec
  - Large group project at the end
  - Otherwise, assignments to be done solo! OR ELSE

- Exams
  - No in class exams
  - Two oral exams, about 15 minutes each; there will be signups starting two weeks before each exam

General Policies

- Late assignments accepted until I leave campus.
- Very late assignments not accepted.
- Can come to either section; same talks.
- If you miss class, check the web site; do not ask me.
  - http://www.cs.fiu.edu/~weiss/cop3338_f00
  - Site crashes often; that’s out of my control

- Book is Core Java, Vol I and II. $65 at bookstore as a set.

Topics

- Object-oriented Programming
  - inheritance
  - patterns
  - projects may be a little bigger than in COP-3337

- Java
  - lots of syntax, including inner classes and threads
  - APIs, including collections, I/O, networking, JDBC, AWT and Swing, and applets

- Advanced topics, not done in other sections
  - Reflection, class loaders, security, GC, serialization, RMI, native methods, C#
Emphasis

- Will discuss the ideas behind the language, API design, and security
- Not too interested in the GUI stuff

Some FAAs

- You cannot take COP-3337 and COP-3338 simultaneously.
- You can take COP-3338 and COP-3530 simultaneously, but you will be very busy.
- You must use a Java 1.2 compiler or higher (1.3 is better). Jbuilder 3.5 is free, but swamps older machines. JDK 1.3 is free and you can use Textpad or equivalent to get a decent IDE environment.
- There will be no curving of grades.

Rough Topic Outline September

- Java Principles (vs. C++)
- Basic Syntax
- References, Arrays, Strings
- Classes
- Inheritance
- Exceptions
- Interfaces
- Inner Classes
- Collections
Rough Topic Outline October

- I/O and Decorators
- Threading and Concurrency
- Networking
- JDBC
- AWT & Swing
- Applets
- Reflection
- Serialization

Rough Topic Outline November

- Class Loaders
- 1.2 Security
- Advanced Garbage Collection
- Native Methods
- RMI
- Servlets
- C#