

Opening Day

Mark Allen Weiss
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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.**

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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.**

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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

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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.**

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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#

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Emphasis

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

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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.**

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Rough Topic Outline September

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

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Rough Topic Outline October

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

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Rough Topic Outline November

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

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