

# CPMA 531 - Programming Languages: Java

Fall 2006

**Dr. Donald Simon**

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**Office Hours:** TTh 2:00-3:00 pm, W 4:00-5:00 pm

**Home page:** <http://www.mathcs.duq.edu/profs/simon.html>

**Required Text:** *The Java(TM) Tutorial (for Java JDK 6)*

The most up-to-date version of book is available online at Sun at <http://java.sun.com/docs/books/tutorial/index.html>. A local copy can be found at <http://www.mathcs.duq.edu/simon/Java/index.html>. Please note the copyright message on that page. Also, please do not print out large segments of the text. Instead, if you prefer a printed edition, a book will be out shortly.

**Recommended Documentation:** <http://java.sun.com/j2se/1.5.0/docs/api/index.html>. This is the documentation for Sun's Java Development Kit (JDK) and is a very handy reference guide to the API.

**Course Objectives:** Java is an object-oriented language containing such features as classes, objects, inheritance, message passing, and exception handling. It is an especially good language for Web programming because it is designed to be a `safe' language and it has a large library of graphical user interface classes and methods that allow one to create neat, whiz-bang applications. In this course, we will learn the ins and outs of Java by writing both programs and applets. We will stress good programming practices, the use of abstraction, and object-oriented design. Knowledge of at least one higher-level programming language is assumed.

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**Grading:** Assignments 75%  
Final 25%

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The grading scale is:

100-90 = A, 89-80 = B, 79-70 = C, 69-60 = D, below 60 = F.

Plus/minus grading will **not** be used.

There will be one programming assignment per week. The final will be a take-home examination giving out on the last day of class and due in one week.

**Honor Policy:** Students in this class fall under the mandate of the College of Liberal Arts plagiarism policy. Any student guilty of plagiarism will receive a grade of ``F" for the course and will be reported to the Student Committee. Work done in this course is to be by the individual, not a group. **You may not share (copy, give, show) your homework with other students in the course.** Any code not your own that is included in your programs must be properly cited. This includes code from the book and that given by the professor.

Submitted programs may include the code that was not written by you, from the book, nor given out by the professor only with specific permission by the professor for that assignment.

**Late Work:** Late assignments will not be accepted.

**Students with Disabilities:** Students with documented disabilities are entitled to reasonable accommodations if needed. If you need accommodations, please contact the Office of Freshman Development and Special Student Services in 309 Duquesne Union (412-396-6657) as soon as possible. Accommodations will not be granted retrospectively.

**Tentative Schedule:**

<b>Date</b>	<b>Topic(s)</b>	<b>Readings</b>	<b>Assignments</b>
1. 8/31	Introduction, Java Language, Classes and Objects	<a href="#"><u>Readings 1, Differences from C++</u></a>	<a href="#"><u>Assignment #1</u></a>
2. 9/7	Interfaces and Inheritance, Exceptions	<a href="#"><u>Readings 2</u></a>	<a href="#"><u>Assignment #2</u></a>
3. 9/14	Input/Output, Regular Expressions	<a href="#"><u>Readings 3</u></a>	<a href="#"><u>Assignment #3</u></a>
4. 9/21	Intro. to Swing, Applets	<a href="#"><u>Readings 4</u></a>	<a href="#"><u>Assignment #4</u></a>
5. 9/28	Swing	<a href="#"><u>Readings 5</u></a>	<a href="#"><u>Assignment #5</u></a>
6. 10/5	Collections, Graphics	<a href="#"><u>Readings 6</u></a>	Assignment #6
7. 10/12	Networking	<a href="#"><u>Readings 7</u></a>	Final

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