JAVA PROGRAMMING - CISC 3400 – E01 (http://www.dsm.fordham.edu/~andrews/java)

Course Objective

This course covers Java programming and Internet computing with various applications. Topics include: Java programming, object-oriented programming, graphical user interfaces (GUI's), I/O, threads and Java generics. This course will also introduce to advanced students a wide range of real world applications in enterprise software systems such as J2EE, Web Service, and mobile programming (Android).

Instructor – Ying Andrews (yandrews@fordham.edu)

- Office Room: Lincoln Center – LL813 | Rose Hill – Keating Hall 115
- Office Hour: Lincoln Center – Thursdays, 5:30-6:00PM | Rose Hill – Mondays, 6:00-6:30PM or by appointment
- Contact: Phone - (212) 636-7925 or (718) 817-4480

Textbook – Introduction to Programming Using Java, 6th Ed. (Free)

- Author: David J. Eck
- Free at http://math.hws.edu/javanotes/

Grading Policy

- Programming Homework ---------- (50%)
- Midterm ---------- (20%)
- Final ---------- (20%)
- Class Attendance ---------- (10%)

No late homework will be accepted without a legitimate reason or the instructor's approval in advance. All your programming assignments should be completed by yourself. However, you are allowed to discuss problems with your classmates and the instructor when you have difficulty completing your assignments. You are subject to the detailed explanation of your submitted programs such as syntax and logic to prove the true ownership of these programs.

Attendance Policy

According to university policy, you are expected to attend all lectures and exams. Make up exams are available only under extreme circumstances with written justification from legitimate authorities.

Lecture Schedule (tentative)

Date	Lecture topics	Lab work
Sep 5	Overview of course and Chapter 1	Install Eclipse IDE, demo Hello program
Sep 10	Chapter 2: Basic things of a Java application, variables vs literals, strings, objects, enum, subroutines and text input and output	Write your very first program
Sep 17	Chapter 2: Details of expressions, programming environments	Homework 1 discussion
Sep 24	Chapter 3: Control statements: blocks, loops, branches, and try…catch	Homework 2 discussion
Oct 1	Chapter 4: Subroutines (aka Java methods)	
Oct 15	**Midterm**	
Oct 22	Chapter 5: Basics of Object Oriented Programming (OOP)	Demo Alice, Demo Android
Oct 29	Chapter 5: More on OOP (inheritance, polymorphism, abstract classes)	Homework 3 discussion
Nov 5	Chapter 6: Simple GUI	Write you first GUI program
Nov 12	Chapter 6: More on GUI (Incorporate events.)	Homework 4 discussion
Nov 19	Chapter 7: Arrays (Process data in batches.)	
Nov 26	Chapter 8: Correctness, Robustness, Efficiency	
Dec 3	Chapter 10 & 11: Java generics and File I/O	
Dec 10	Real world applications of Java in enterprise software and mobile devices	Demo J2EE, Android
Dec 17	**Final Exam**	