

IDS 401: Business Object Programming Using Java Spring 2008

Class: Monday 6:00 P.M. – 8:30 P.M., BH 208

Lab: Monday 4:30 P.M. – 5:30 P.M., EPASW L270

Call #s: 16732, 16733, and 20266

Instructor: Chen Ye (chenye@gmail.com)

Office Hours: Monday 1:30 PM – 3:30 PM, UH 2405

Textbook:

Y Daniel Liang, Introduction to Java Programming-Comprehensive Version, 6th Edition, Prentice Hall, 2007. ISBN-10: 0132221586; ISBN-13: 9780132221580

Online student resource: <http://cs.armstrong.edu/liang/intro6e/intro6estudentsolution.html>

Recommended Reading:

Thinking in Java, by Bruce Eckel

You can download a free copy of the 3rd Edition at:

<http://www.mindview.net/Books/TIJ/>

Course Description

This course is designed to study the basic concepts in object-oriented programming such as objects, classes, class inheritance and interfaces, data abstraction and encapsulation, polymorphism, and dynamic binding. The UML class diagram is used as a tool for visualizing class characteristics and relationships. The Java Graphical User Interface components and the concepts of event-driven programming and event-delegation model (event registration, listening, and handling) will also be discussed. Several examples on how to use these concepts will be provided and discussed in class.

Course Objectives

Upon completion of this course, the student will learn good software engineering principles. These include modularization, data abstraction and encapsulation, stepwise refinement, visual aids, the analysis of algorithms, as well as the choice, design, and implementation of appropriate data structures for use in the application programs.

Course Outline

This course outline is for planning purpose only. The actual schedule may vary.

Week	Topic	Reading Assignments
Week 1 Jan 14	Introduction, Primitive Data Types, and Control statements - 1	Chapters 1-4
Week 2 Jan 21	Martin Luther King, Jr., Day, no classes.	
Week 3 Jan 28	Control statements - 2	Chapters 1-4
Week 4 Feb. 4	Methods and Arrays	Chapters 5-6

Week 5 Feb. 11	Objects and Classes	Chapter 7
Week 6 Feb. 18	Strings, Inheritance and Polymorphism - 1	Chapters 8-9
Week 7 Feb. 25	Inheritance and Polymorphism - 2	Chapter 9
Week 8 Mar. 3	Review for Midterm	
Week 9 Mar. 10	Mid-Term Exam	Chapters 1-9
Week 10 Mar. 17	Abstract Classes and Interfaces	Chapters 10
Week 11 Mar. 24	Spring break, no classes.	
Week 12 Mar. 31	Object-Oriented Modeling - 1	Chapters 11
Week 13 Apr. 7	Object-Oriented Modeling - 2	Chapters 11
Week 14 Apr. 14	Getting Started with GUI Programming	Chapter 12
Week 15 Apr. 21	Exceptions and Assertions	Chapter 17
Week 16 Apr. 28	Review for final exam	Chapters 1-9, 10, 11, 12, 17
Week 17	Final Exam (time and place to be announced)	

Assignments

There will be 4 to 6 programming assignments. The assignments and due dates will be announced in class. All programs must be written in Java. All assignments should be done individually. We will be using the Blackboard system for assignment submission.

Exams

There will be one midterm exam and a final exam. No makeup exam will be given except in cases where prior permission is obtained for missing the exam by providing written proof.

Grading

Four to 6 assignments	40%
One midterm exam	30%
One final exam	30%

Letter Grades Determination

A: Total score ≥ 90
B: $80 \leq$ Total score < 90
C: $70 \leq$ Total score < 80
D: $60 \leq$ Total score < 70
E: Total score < 60

Depending on class performance, the grades might be curved.

Course Administration

This course and its coursework are being administered under the policies of the University of Illinois at Chicago (UIC) College of Business Administration Honor Code. All students are expected to respect and uphold this code.

Violations of the Honor Code are just causes for discipline under the University of Illinois at Chicago Student Disciplinary Procedure, and all allegations of Honor Code violations shall be handled pursuant to that Procedure.

Honor Code for the College of Business Administration

As an academic community the College of Business Administration at the University of Illinois at Chicago is committed to providing an environment in which teaching, learning, research, and scholarship can flourish and in which all endeavors are guided by academic and professional integrity. All members of the college community – students, faculty, staff, and administrators – share the responsibility of insuring that high standards of integrity are upheld so that such an environment exists.

In pursuit of these high ideas and standards of academic life, as a student I hereby commit myself to respect and uphold the University of Illinois at Chicago (UIC) College of Business Administration Honor Code during my entire matriculation at UIC. I agree to maintain the highest moral and ethical standards in all academic and business endeavors and to conduct myself honorably as a responsible member of the college academic community. This includes the following:

- Not to seek unfair advantage over other students, including, but not limited to giving or receiving unauthorized aid during completion of academic requirements;
- To represent fact and self truthfully at all times;
- To respect the property and personal rights of all members of the academic community