

Syllabus

SE 450 Object-Oriented Software Development

Object-Oriented Programming using Java

Winter 2000 (2000/01/03 – 2000/03/18)

Tuesday 5:45 – 9:00 pm, Loop campus (96-450-204)

Wednesday 5:45 – 9:00 pm, Loop campus (96-450-201)

Video/On-Line section (96-450-202)

Instructor: Dr. Xiaoping Jia

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Office hours: Tuesday and Wednesday 4:30-5:45pm (Loop campus)

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Course URL: <http://se.cs.depaul.edu/se450/se450.html>

Requirements:

- **CSC 416 Foundations of Computer Science II**
- Knowledge of object-oriented programming and C++
- Knowledge of HTML and web browsers

Topics:

- Applets, WWW, HTML
- Classes and interfaces
- Data types and control flows
- AWT, Swing, and animation
- Input and output, collections
- Multi-threaded programming
- Networking
- Object-oriented design
- Introduction to design patterns and frameworks

Textbooks:

- [1] *Object-Oriented Software Development in Java – Principles, Patterns, and Frameworks*, Xiaoping Jia, 1/ed. Addison-Wesley 2000. (*Primary text*)
- [2] *The Java™ Programming Language*, Ken Arnold, and James Gosling. 2/ed. Addison-Wesley 1997. (*Reference*)
- [3] *The Java™ Class Libraries — An Annotated Reference*, 2/ed. Vol. 1&2. Patrick Chan, Rosanna Lee. Addison-Wesley 1998. (*Reference*)
- [4] *The Java Class Libraries: 1.2 Supplement*, Patrick Chan, Rosanna Lee, Douglas Kramer, Doug Kramer. 2/ed. Addison-Wesley 1999. (*Reference*)
- [5] *Design Patterns - Elements of Reusable Object-Oriented Software*, Erich Gamma, Richard Helm, Ralph Johnson, John Vlissides, Addison-Wesley 1995. (*Reference*)

Grading:

- Homeworks — 30%
- Mid-term exam — 20%
 - 96-450-204: 2000/02/01 Tuesday
 - 96-450-201: 2000/02/02 Wednesday
 - 96-450-202: 2000/02/02 Wednesday (video section: students are required to be present in classroom at Loop)

- Final exam — 25%
96-450-204: 2000/03/14 Tuesday
96-450-201: 2000/03/15 Wednesday
96-450-202: 2000/03/15 Wednesday (video section: students are required to be present in classroom at Loop)
- Course project — 25%
Due: 2000/03/15 Wednesday

Grading Scale:

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|----------------------------|----------------------------|
| • A : total ≥ 93 | • C+: 80 > total ≥ 77 |
| • A-: 93 > total ≥ 90 | • C : 77 > total ≥ 73 |
| • B+: 90 > total ≥ 87 | • C-: 73 > total ≥ 70 |
| • B : 87 > total ≥ 83 | • D+: 70 > total ≥ 67 |
| • B-: 83 > total ≥ 80 | • D : 67 > total ≥ 63 |
| | • D-: 63 > total ≥ 60 |
| | • F : 60 > total |