

Fall 2025

# Java Programming II

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514770

Fall 2025

9/3/2025

Kyoung Shin Park  
Computer Engineering  
Dankook University

# Course Information

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## □ Course

- Java Programming 2 (514770)
- Fall 2025, 3 credits, 3 hours
- Course hour: Wednesday 1-6/11-16 (2<sup>nd</sup> Engineering 521)

## □ Instructor

- Kyoung Shin Park
- kpark@dankook.ac.kr
- 031-8005-3161 (office) 010-8636-1960 (mobile)
- 2<sup>nd</sup> Engineering Building, Room 512
- Office hour: by appointment

## □ Prerequisite courses

- Java Programming 1

# Purpose

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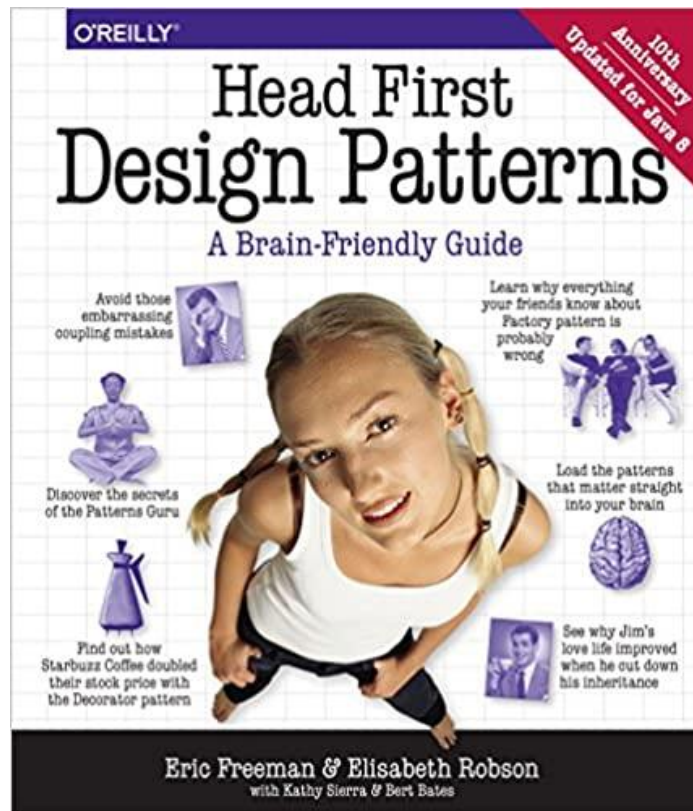
- ❑ Weekly course content is subject to change
- ❑ Do not take this course unless you plan to get a job in a software development related field
- ❑ Do not take this course unless you know the Java language or have used other Object-Oriented Programming languages
- ❑ This course do not teach Java

# Text Book

## □ Textbook

### ■ Head First Design Patterns

- Eric Freeman, Elisabeth Freeman with Kathy Sierra, Bert Bates
- O'Reilly



# Evaluation

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- ❑ Attendance: 10%
  - Attendance is deducted in proportion to the number of absences and tardiness, and F for students who are absent more than  $\frac{1}{3}$  of the total class time.
- ❑ Midterm Exam: 30 %
- ❑ Final Exam: 40%
- ❑ Homework: 20 %
- ❑ Class Participation & Attitude: extra 10%

# Schedule

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1. Introduction to Course
2. OOP, SOLID
3. Software Design Pattern, Strategy Pattern
4. Observer Pattern
5. Decorator Pattern
6. Factory Pattern, Builder Pattern
7. Singleton Pattern
8. Midterm Exam

# Schedule

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9. Command Pattern
10. Adapter, Façade, Iterator Pattern
11. Template Method Pattern, Composite Pattern
12. State Pattern, Proxy Pattern
13. J2EE Design Pattern, DAO Pattern
14. MVC Pattern
15. Final Exam

# Exams

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- Midterm Exam
  - 2-hour close-book exam
- Final Exam
  - 2-hour close-book exam



# Homework

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## □ Individual Homework

- Java Programming
- ~8 assignments
- Deduct points for late submission past the due date
- Give 0 points for missing assignment
- Turn in all your source codes, executable, a short **2~5-page (single-space, 10-point font) report** containing the snapshot
- Require source code comments
- The content of the report should consists of a description of the implementation method, a description of the main code, and the execution result screen capture(image).
- **Note: If you have not write your own code, or if the contents of your source code are almost similar to other students, the final grade of this course is F.**

# Online Resources

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- ❑ Tutorialspoint Design Patterns in Java Tutorial  
[https://www.tutorialspoint.com/design\\_pattern/index.htm](https://www.tutorialspoint.com/design_pattern/index.htm)
- ❑ Javatpoint Design Patterns in Java Tutorial  
<https://www.javatpoint.com/design-patterns-in-java>
- ❑ DZone Design Patterns for Beginners with Java Examples  
<https://dzone.com/articles/design-patterns-for-beginners-with-java-examples>
- ❑ HowToDoInJava Design Patterns Tutorials  
<https://howtodoinjava.com/design-patterns/>
- ❑ Mkyong Java Design Patterns  
<http://mkyongtutorial.com/java-3>

# Announcement

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- Class blog:  
<http://dis.dankook.ac.kr/lectures/java25-2/>