

Fall 2021

# Java Programming II

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514770  
Fall 2021  
8/30/2021  
Kyoung Shin Park  
Computer Engineering  
Dankook University

## Course Information

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- Course
  - Java Programming 2 (514770)
  - Fall 2021, 3 credits, 3 hours
  - Course hour: Monday 13:30-16:30 (2<sup>nd</sup> Engineering 420)
- 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

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- 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 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
7. Singleton Pattern
8. Midterm Exam

## Schedule

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9. Command Pattern
10. Adapter, Facade Pattern
11. Template Pattern
12. Iterator, Composite Pattern
13. State Pattern
14. DAO, 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
  - 4~8 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/java21-2/>

