

# Java Language Programming

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To Construct Program using Java...

for **problem solving.**

# Textbooks

- ◆ Introduction to Java Programming  
Comprehensive Version Tenth Edition
  - Java语言程序设计（基础篇） 原书第10版 梁勇 机械工程出版社
- ◆ Introduction to Java Programming  
Brief Version Tenth Edition
  - Java语言程序设计（进阶篇） 原书第10版 梁勇 机械工程出版社
- ◆ Core Java Volume I——Fundamentals (Ninth Edition)
  - Java核心技术 卷 I 基础知识（原书第9版） Cay S. Horstmann etal.
- ◆ Core Java Volume II ——Advanced Features(Ninth Edition)
  - Java核心技术 卷 II 高级特性（原书第9版） Cay S. Horstmann etal.

# Course Information

## ♦ Course schedule:

- week 4~18: Teaching
- week 19: Close-book Exam
  - ♦ 50 choice questions Scoring

## ♦ Scoring

- Homework: 60%
  - ♦ Best 3 from 6+ optional assignments
  - ♦ 1 compulsory assignment (from week6 to the end week 18 )
- Final Exam: 40%

# HW submission requirement

✦ For Compulsory one, email the report files including

1) Name, studentid, class

2) Source Code, procedures descriptions, result files

✦ For optional ones Printed report including

1) Name, studentid, class

2) Exercise No.

3) Source Code, procedures/results description and results demo such as pictures.

# Content

- ♦ 01 Introduction to Computers, Programs, and Java
  - ♦ 02 Elementary Programming
  - ♦ 03 Selections
  - ♦ 04 Mathematical Functions, Characters, and Strings
  - ♦ 05 Loops
  - ♦ 06 Methods
  - ♦ 07 Single-Dimensional Arrays
  - ♦ 08 Multidimensional Arrays
  - ♦ 09 Objects and Classes
  - ♦ 10 Thinking in Objects
  - ♦ 11 Inheritance and Polymorphism
  - ♦ 12 Exception Handling and Text IO
  - ♦ 13 Abstract Classes and Interfaces
  - ♦ 14 JavaFX Basics \*
  - ♦ 15 Event-Driven Programming and Animations
  - ♦ 16 JavaFX UI Controls and Multimedia \*
  - ♦ 17 Binary I/O
  - ♦ 19 Generics
  - ♦ 20 Lists, Stacks, Queues, and Priority Queues
  - ♦ 21 Sets and Maps
  - ♦ 30 Multithreading and Parallel (\*) Programming
  - ♦ 31 Networking
  - ♦ 32 Java Database Programming
- \* Self-learning chapters

# Contact

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- Github
  - ◆ [https://github.com/huzhengatUCSD/Java\\_Course.git](https://github.com/huzhengatUCSD/Java_Course.git)

# ... to learn

- ◆ Practice with design- thinking
- ◆ Communicate with ...
- ◆ Use Google/Baidu and Git