

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 4 from 8+ optional assignments
- Final Exam: 40%

HW submission requirement

♦ 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

... to learn

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