

Overview of Java Programming AP Edition (College Level)

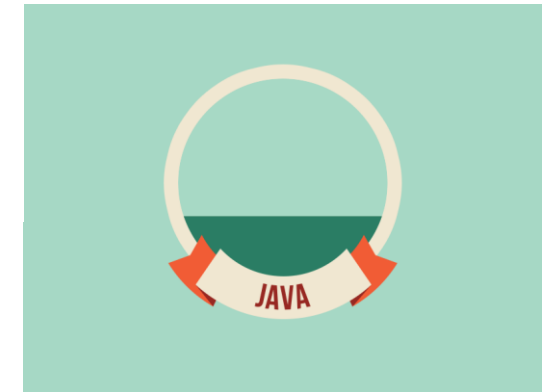
JAVA AS A PILOT LANGUAGE TO COMPUTER SCIENCE

ERIC Y. CHOU, PH.D.

IEEE SENIOR MEMBER

Java Programming Course Series

eC Learning Channel



Build up Computer Science Knowledge with Java

Apply that to Other Languages

Javascript GO Objective-C VHDL
HTML Python Pascal C/C++ PHP C# Verilog Fortran
R



Java Programming Essentials

AP Computer Science A

Unit 1

Elementary Programming
Basic Java

Unit 2

Structural Programming
Decisions
Loops
Methods

Unit 3

Array
ArrayLists
Classes
Objects

Review 1

SDLC
Pseudo Code

Review 2

Flow Chart
Dia Diagramming

Review 3

Class Diagram
Violet Tool



Java Object-Oriented Programming: AP Computer Science B

Unit 4

- OO Programming
- Inheritance
- Polymorphism
- Abstract Classes
- Interface

Unit 5

- Algorithms
- Data Structures

Unit 6

- AP Labs
- Chatbot
- Picture Lab
- Elevens

Review 4

- GUI
- Programming
- Swing/AWT

Review 5

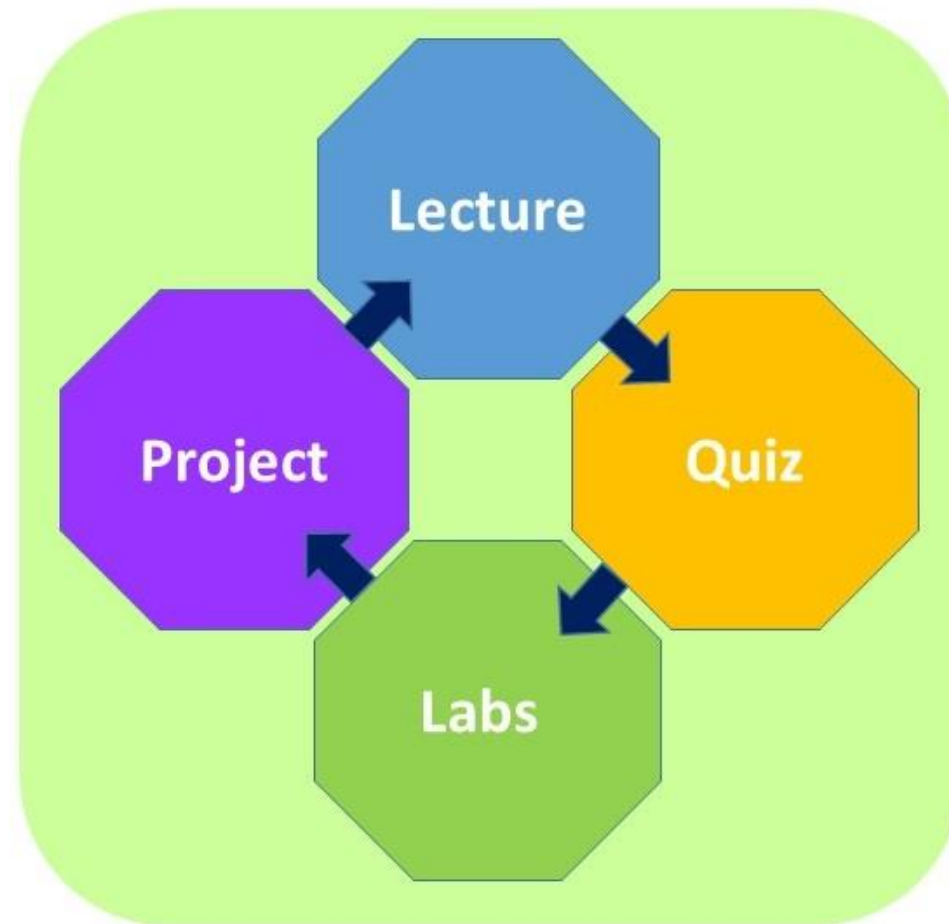
- Software Testing
- Software Eng.
- JUnit Testing

Unit 7

- AP Exam
- Reviews



Spiral Study model





Java Applications

(borrowed from Oracle website)

