

Virginia Western Community College

ITP120

Java Programming I

Prerequisites

CSC221 or instructor's permission

VCCS Course Description

Entails instruction in fundamentals of object-oriented programming using Java. Emphasizes program construction, algorithm development, coding, debugging, and documentation of console and graphical user interface applications.

Semester Credits:4

Lecture Hours: 4

Required Materials

Textbook

Java, How to Program, 11th edition, Paul and Harvey Deitel, Pearson Publishing. There are three versions. ISBN with eBook 978-0134752129 ISBN with loose leaf printed text 978-0134800301 ISBN with printed version of text 978-0134800271 Make certain it is the code for Deitel 11th Java Early Objects

Other Required Materials:

Eclipse (latest version) or equivalent supplied in class

VCCS COURSE OUTCOMES

At the completion of this course, the student should be able to:

- Have an introduction to computers, programs, and Java
- Understanding the fundamentals of input, processing, output
- Understand how to use both console and dialog box input and output
- Be able to master the concepts of Java constructs including looping and selections
- Understand the concept of static entities
- Be able to modularize code with methods
- Understand how to utilize one dimensional arrays
- Understand how to apply Java objects and classes to solve programs
- Be able to write code with classes and associations
- Understand and utilize the concepts of inheritance and polymorphism

- Understand how to use flat files
- Be able to write code that catches, handles, and throws exceptions
- Understand the concepts of abstract classes
- Be able to implement interfaces to help with generic solutions
- Be able to utilize ArrayLists for collections
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Note to Instructors

1. Each module is two weeks long and requires both a quiz and a laboratory assignment submitted through Canvas
2. One proctored exam is required.

[TITLE IX STATEMENT](#)

[ADA STATEMENT](#)

