

## COURSE OVERVIEW

**Course Title:** LEVEL 8: ORACLE JAVA CERTIFICATION

**Course Number:**

**Number of Units:** 4.0 units

**Total Hours of Instruction:** 40

### Course Description

In this course, you'll study for a professional certification as a Java programmer. Oracle-administered exams are recognized as the industry standard for Java developers.

During level 8, students prepare to take the Java SE 8 Programmer I (1Z0-808) exam. Even experienced professionals need to study for this exam, since it requires intricate knowledge of the language that may not be regularly used in practice. League levels 0-5 are a prerequisite for this course.

### Content and Evaluation

The Oracle Certification exam tests you on all the dark corners of the language, and it is an exam that even professionals must study for.

We will cover each of the exam topics with lectures and worksheets and coding exercises that reinforce the lectures. Then we tackle a mountain of sample questions until you are able to score highly enough to pass the exam.

To complete this level, students must achieve a score of 65% or higher on the Oracle exam, thereby gaining their official certification.

### Extra Credit

n/a

### Methods of Instruction

- |                                     |                                    |                                     |                                |
|-------------------------------------|------------------------------------|-------------------------------------|--------------------------------|
| <input checked="" type="checkbox"/> | CLASS DISCUSSION/DISCUSSION BOARDS | <input checked="" type="checkbox"/> | LECTURES                       |
| <input type="checkbox"/>            | FIELD TRIPS                        | <input type="checkbox"/>            | CASE STUDIES                   |
| <input type="checkbox"/>            | GROUP WORK                         | <input checked="" type="checkbox"/> | OTHER: PROGRAMMING ASSIGNMENTS |

### Out of Class Assignments

Total hours expected to complete assignments: n/a

- |                          |                    |                                     |   |
|--------------------------|--------------------|-------------------------------------|---|
| <input type="checkbox"/> | TEXTBOOK EXERCISES | <input type="checkbox"/>            | READINGS  |
| <input type="checkbox"/> | GROUP WORK         | <input type="checkbox"/>            | WRITTEN ASSIGNMENT/ESSAY(S)                           |
| <input type="checkbox"/> | STUDENT PROJECT    | <input checked="" type="checkbox"/> | OTHER: EXPLORATION OF CONCEPTS BY PROGRAMMING AT HOME |

## Evaluation/Grading

- |                          |                             |                          |                                       |
|--------------------------|-----------------------------|--------------------------|---------------------------------------|
| X                        | EXAM(S)                     | <input type="checkbox"/> | CLASS PARTICIPATION/DISCUSSION BOARDS |
| <input type="checkbox"/> | WRITTEN ASSIGNMENT/ESSAY(S) | <input type="checkbox"/> | CLASS PROJECT(S)                      |
| <input type="checkbox"/> | OTHER:                      |                          |                                       |

## Topical Outline

- 1. Java Basics**
- 2. Working With Java Data Types**
- 3. Using Operators and Decision Constructs**
- 4. Creating and Using Arrays**
- 5. Using Loop Constructs**
- 6. Working with Methods and Encapsulation**
- 7. Working with Inheritance**
- 8. Handling Exceptions**