

**LSJ CPE Sun Java****LSJ 8001 Java Fundamentals (1.5-0.5) 1.5 crs.**

Teaches the significance of object-oriented programming and concepts such as inheritance, encapsulation and abstraction. Explains keywords and constructs of the Java programming language and basic error handling for Java technology programs. Demonstrates how to create Java classes containing arrays, loops and conditional constructs. Provides knowledge in Java programming language constructs and shows how to create Java technology applications. Recommended Preparation: LCT0190 or knowledge of HTML. Some programming experience beneficial but not required.

**LSJ 8002 Java Programming (1.5-1) 2 crs.**

Covers core Application Programming Interfaces (API) used to design object-oriented applications with Java. Includes creating classes, extend abstract classes and programming with interfaces. Teaches how to develop applications that manipulate files, directories and file systems. Provides knowledge in how to use exceptions and the Collections framework, write database programs with JDBC and multi-threaded applications. Recommended Preparation: LSJ8001 or the ability to create, compile and execute programs. Understanding of object-oriented principles, database concepts and familiar with SQL syntax.