

Computer Science: JAVA Programming I

Design, develop, compile, debug, test, run, and document programs in the Java language using a software development kit. [CIT 149.1](#)

1 Design, develop, compile, debug, test, run, and document programs in the Java language using a software development kit. [CIT 149.1](#)

Design and develop programs using operators and assignments. [CIT 149.2](#)

2 Design and develop programs using operators and assignments. [CIT 149.2](#)

Design and develop programs using primitive data types. [CIT 149.3](#)

3 Design and develop programs using primitive data types. [CIT 149.3](#)

Design and develop programs using sequence, selection, and repetition structures. [CIT 149.4](#)

4 Design and develop programs using sequence, selection, and repetition structures. [CIT 149.4](#)

Design and develop programs using single and multi-dimensional arrays. [CIT 149.5](#)

5 Design and develop programs using single and multi-dimensional arrays. [CIT 149.5](#)

Design and develop programs using effective error and exception handling. [CIT 149.6](#)

6 Design and develop programs using effective error and exception handling. [CIT 149.6](#)

Design and develop programs using object-oriented programming

7 Design and develop programs using object-oriented programming features, including defining classes, instantiating objects, and using arrays of objects. [CIT 149.7](#)

features, including defining classes, instantiating objects, and using arrays of objects. CIT 149.7

Design and develop programs implementing user-defined methods and modular programming. CIT 149.8

8 Design and develop programs implementing user-defined methods and modular programming. CIT 149.8

Design and develop programs using method overloading. CIT 149.9

9 Design and develop programs using method overloading. CIT 149.9

Design and develop programs using inheritance, encapsulation, and polymorphism. CIT 149.10

10 Design and develop programs using inheritance, encapsulation, and polymorphism. CIT 149.10

Design and develop GUI interfaces for Java applications. CIT 149.11

11 Design and develop GUI interfaces for Java applications. CIT 149.11

Evaluate and critique effectiveness and efficiency of code. CIT 149.12

12 Evaluate and critique effectiveness and efficiency of code. CIT 149.12