

## Java Programming 13 unit certificate

The Java Programming certificate provides the student with skills a new programmer would need to obtain employment programming Java applications.

### Required Courses

**CIS/CSC-5 Programming Concepts and Methodology I: C++ (4 units)\* (Must be completed first)**

Advisory: CIS-1A

Fundamentals of problem definition, algorithm development and structured programming logic for business, science and mathematical applications.

**CIS/CSC-18A Java Programming: Objects (3 units)\***

Advisory: CIS/CSC-5A/Should be completed prior to CIS/CSC-18B

Intro to Java Programming for students with experience in the fundamentals of programming.

**CIS-18B Java Programming: Advanced Objects (3 units)\***

Advisory: CIS/CSC-18A

Advanced Java Programming course for students already familiar with object-oriented programming and utilization of basic graphical interface techniques.

**CIS-18C Java Programming: Data Structures (3 units)\***

Advisory: CIS/CSC-18A

Advanced Java Programming course for students already familiar with object-oriented programming and database concepts.

\*This class transfers toward one or more CSUSB or CalPoly majors. Visit [www.assist.org](http://www.assist.org) or the Counseling office for details.

## Java Programming

Tuition \$46/unit • Duration of Study: 8 months

A Certificate in Java Programming will be awarded upon completion of the required courses (13 units). Please refer to the Norco College Catalog or visit the Counseling Center.

### Job & Wage Information

- Computer Programmer  
Wage Range\*: \$32.85-52.69  
8% decrease in employment expected in CA 2019-2029; 1,330 openings annually  
More info:  
<http://bit.ly/CompProgrammerNC>
- Java Developer  
Wage Range\*: \$32.85-52.69  
0% increase in employment expected in CA 2019-2029; 15,500 openings annually  
More info:  
<http://bit.ly/SoftwareDeveloperNC>

\*2020, Riverside/Ontario/San Bernardino Metro Area

### What type of interests might be a good fit for this career choice?



## Investigative

People who like to observe, learn, investigate, analyze, evaluate, or solve problems primarily of a scientific or mathematical nature.

For more information on careers that fit this category of interests, visit the Career Center in the Center for Student Success.

### What's Your School?



SCHOOL OF  
**Science, Technology,  
Engineering & Mathematics**

Visit [www.norcocollege.edu/STEM](http://www.norcocollege.edu/STEM) for more information about this program.