



# Java Programming & Application Development

**Instructor:** Calvin Thompson

**Location:** NTCC (Bean Center) Room T-211

## About the Program

Java is perhaps the most versatile and popular programming language in the world. Students in the Java Programming and Application Development program prepare for high-skill/high-wage careers in software development, web application development, or as an enterprise Java developer.

The program introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The curriculum is taught primarily through projects that involve the creation of software applications employing object-oriented programming techniques. They will also learn how to use Java to develop applications for the mobile environment.

The program consists of four high school courses which include a credit in AP Computer Science and a three-course series that qualifies students for the State of Florida Gold Seal Scholarship. All courses in the program are graded on a weighted, 5.0 grading scale. Students are also prepared to take the Oracle Certified Java Associate examination and the Nassau County School District covers the testing fees.

Cook Systems International, a world-renowned technology company, is a primary partner for the program, lending curriculum support and providing instructor training. In addition to Cook Systems, the program enjoys outstanding leadership that includes technology experts from Wells Fargo, Florida Blue, Rayonier, Feature 23, and the STEM<sup>2</sup> Hub.



## About the Instructor

Kalvin Thompson has been working with computers since 1987 and holds a Bachelor of Science degree in Computer and Information Science from the University of Florida. In 2015, he participated in Cook Systems' Fast-Track'D; an elite-level developer program that includes instruction in Java, JavaScript, HTML, SQL, Spring, and many other technologies. He has worked in both mainframe and client server development environments, including executive experience as Director of IT Development for a national radio broadcasting and media company. Mr. Thompson has been teaching the Games, Simulation, Animation and Programming class since its inception in January of 2011, and began teaching the Java program in the fall of 2015. He is well-known locally for his ability to teach advanced programming concepts to students of all ages.

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## 1st Semester

9007210  
Foundations of Programming  
(1 Credit, Weighted GPA)

9007220  
Procedural Programming  
(1 Credit, Weighted GPA)

## 2nd Semester

9007230  
Object-Oriented Prog. Fundamentals  
(1 Credit, Weighted GPA)

0200320  
AP Computer Science A  
(1 Credit, Weighted GPA)

- Available to all Nassau County high school students
- Students may earn college credit through articulation with Oracle Java Certification or by passing the AP Computer Science course
- Successful students will earn four honors-weighted high school credits
- Course curriculum provides a foundation for careers as a software developer, Enterprise Java Developer, or mobile application development



### ***Nassau County School Board Equity and Non-Discrimination Statement***

*The School Board of Nassau County, Florida, does not discriminate in admission, access, treatment or employment in its programs and educational or extra-curricular school activities on the basis of race, color, religion, age, sex, national origin, marital status, disability, genetic information, sexual orientation, gender identity or expression, or any other reason prohibited by law. The School Board also provides equal access to the Boy Scouts of America and other patriotic youth groups. The following district contacts have been designated to handle inquiries regarding non-discrimination and harassment policies, reports of alleged violations, concerns about compliance and/or the grievance procedure(s): (904) 491-9900*

## ***Lewis "Red" Bean Nassau Technical Career Center***

The Nassau Technical Career Center (NTCC) is a unique partnership between the Nassau County School District and Florida State College at Jacksonville that offers both high school and college credit programs in a variety of careers. The NTCC features fully-equipped, technology-enhanced classrooms and labs. Students can receive job training, earn industry credentials, and credits toward a college degree while in high school.

