

Computer Programming Applications & Gaming and Advanced Programming

(Newport News Campus) Course #8542/8545

Verified credit w/ Software Development Certification (C++) Exam

College
Credit
Available

Information Technology



If You Like:

- Developing Computer Programs
- Creating Web-Based Applications
- Creating Gaming & other Multimedia Applications Then this is the program for you!
- Learning Coding & Graphical Interfaces
- Developing Websites

About the program:

This industry designed course allows students to focus on computer science and apply key programming concepts, algorithmic procedures, programming languages, and web-based applications. In the Advanced Programming course, students will use object-oriented programming to design and develop database and multimedia programs and applications. This class is dual enrolled for 18 college credits with Thomas Nelson Community College.

Career Opportunities:

- Computer Programmer
- Database Analyst
- Network Architect
- Game Designer & Programmer
- Multimedia Artist & Animator
- Software Test Engineer

Topics of study:

- Coding
- Object-oriented programming & design (JAVA and C++)
- Data structures & algorithms
- Program Analysis
- Gaming & Modeling and Simulation applications
- Mobile Applications
- Web Applications

Certifications:

- C++ Exam

Important to note: Students enrolling in this course must have completed Algebra I with a grade of "C" or above. This one-year course meets the sequential elective requirement. Students may earn college credit through Thomas Nelson Community College.