

MANUFACTURING

Christopher Truong, Instructor

INDUSTRY CERTIFICATIONS

- Java 2 Fundamentals
- Certified Internet Web Professional–CIW
- Computer Programming (NOCTI)
- Computer Programming (SkillsUSA)
- Internet and Computing Core Certification–IC3
- Microsoft Certified Professional–MCP
- National Career Readiness
- Software Development
- Workplace Readiness Skills for the Commonwealth
- Brainbench
- MOS (formerly MOUS certification)

*Students will also take the AP Computer Science Exam in May.

POSSIBLE CAREER PATHWAYS

- ⇒ Applications Developer
- ⇒ Software Engineer
- ⇒ Project Manager

COLLEGE AND CAREER OPPORTUNITIES

- Know How Virginia www.knowhowvirginia.org/
- Tidewater Community College www.tcc.edu/
- College Board www.collegeboard.com/
- Virginia Career View www.vaview.vt.edu/
- Bryant and Stratton College www.bryantstratton.edu/
- Career Connection <http://jobs.hamptonroads.com/>
- Future Business Leaders of America www.fbla-pbl.org/
- DeVry University www.devry.edu/

STARTING SALARY

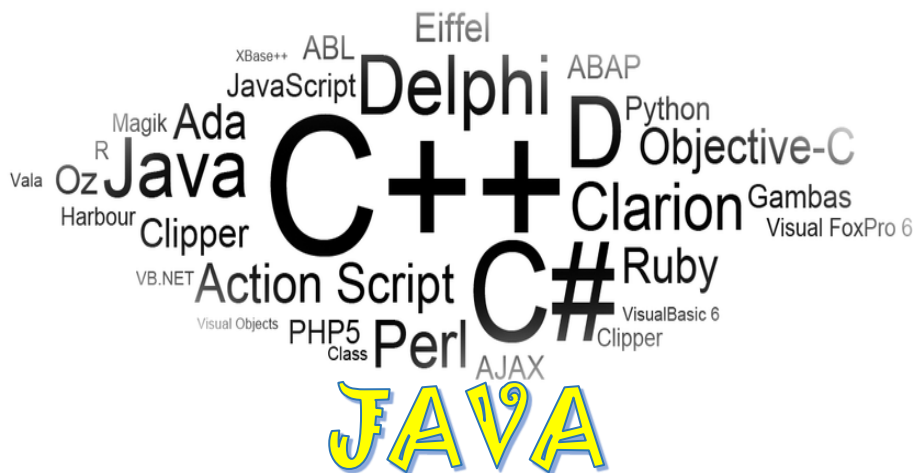
\$36,200 - \$105,570

Earning may vary by specialty

Bureau of Labor Statistics, U.S. Department of Labor, *Occupational Outlook Handbook, 2016-17 Edition*, Software Developers, on the Internet at

<http://www.bls.gov/ooh/computer-and-information-technology/software-developers.htm>

**The JAVA Programming course participates in the FBLA co-curricular club.



Programming

PROGRAM DESCRIPTION

Students explore computer concepts, apply logic procedures, and implement programming procedures with one or more languages, such as Visual Basic.Net, Java, C#, and C++. Graphical User Interfaces, such as Alice, Game Maker, and Flash, may be used as student's design and develop interactive multimedia applications. In addition, HTML or JavaScript may be employed to create Web pages. The cooperative education method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year.

PROGRAM CONTENTS/SKILLS

- Demonstrating Workplace Readiness Skills: Personal Qualities and People Skills
- Demonstrating Workplace Readiness Skills: Professional Knowledge and Skills
- Demonstrating Workplace Readiness Skills: Technology Knowledge and Skills
- Examining All Aspects of an Industry
- Addressing Elements of Student Life
- Exploring Programming Concepts
- Using Algorithmic Procedures
- Implementing Programming Procedures
- Mastering Programming Fundamentals
- Developing Interactive Multimedia Applications
- Using Web Technology
- Developing Employability Skills
- Developing Object-Oriented Programming
- Developing Database Applications
- Developing Mobile Applications

PREREQUISITES

- One year of Algebra (Algebra 1A and 1B)
- Keyboarding Applications skills preferred

FOR FURTHER INFORMATION contact (757) 892-3300 or schools.nps.k12.va.us/ntc