WARREN TECH

Computer Programming

2020-2021

GO KNIGHTS!

COMPUTER PROGRAMMING

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Warren Tech teaches skills, values, and the work ethic essential to future computer programmers, computer science students, and networkers. Our diversified curriculum starts by emphasizing fundamentals such as computational thinking, algebraic math, and programming procedures.

This four-year program teaches students many different programming languages as well as computer science and networking concepts.

First year students will obtain experience through hands-on projects that focus on problem solving. The first year also introduces computer concepts such as input, output, storage, and information processing. Students learn and utilize HTML and CSS to build professional style websites. Entry level game development using Scratch

Programming is taught and practiced as well.

Second year students explore computer science principles by learning binary, data processing, and technical challenges that arise in computational devices when sending and sharing data. Object oriented programming is learned and mobile applications are created.

Third and fourth year students learn the programming language Java. Upperclassman are also introduced to cyber security concepts. Unity game development is taught and students create games with terrain and assets.

Combined with classes and projects is training in reading code, working with peers, and the use of many online platforms to achieve programming goals. Warren Tech's Programming shop is

student focused and allows students a range of exposure from object oriented languages to procedural languages.

Business fundamentals are developed through practice in commenting code, working in paired programming groups, and giving oral presentations about student designed games or programs.

Computer Programming

The Warren Tech Computer Program Career Academy has a variety of pathways available for students to pursue: College, Trade Schools, Entrepreneurship, Military Service, and the Workforce.

Work Force Ready

Students in Computer Programming are prepared to pursue jobs upon graduating from Warren Tech. Students in this pathway will develop in-demand skills that can help them obtain employment at an IT help desk, or in the areas of webpage design, web development, app development, or database analyst.
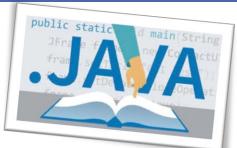
College, Trade Schools, & Entrepreneurship

Students enrolled in Computer Programming at Warren Tech will begin preparing for two or four-year college programs by pairing their shop program with college prep courses or AP computer science courses.

Students considering Computer Science and or Cyber Security are encouraged to combine their skills learned at Warren Tech with post-secondary education in Computer Science, Networking, or Cyber Security.

HANDS ON TRAINING

Students in Programming learn CSS, HTML JavaScript, Java, , Scratch, Unity Game Development, and Computational Thinking Skills

JOB PLACEMENT

Students in this pathway will develop in-demand skills that can help them obtain employment in technology, programming, or web development.

For More Information Contact: Warren Tech Admissions
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