IT / Computer Science Pathway

Central Ohio jobs have changed dramatically over the last 30 years. One of the most important and fastest growing industries is information technology and computer science. In fact, major employers can't find enough qualified and passionate IT professionals to fill their job openings.

Students with a flare for computers, technology and programming are already well on their way to a successful career in information technology.

Gahanna-Jefferson's IT/Computer Science pathway is designed with both the needs of students and the needs of our economy in mind. As part of an exciting new regional initiative called *Innovation Generation*, it gives students a chance to explore their interests and apply their knowledge before graduation. Starting in fall of 2015, Gahanna-Jefferson students interested in an IT or computer career will have an opportunity to learn about this exciting industry sector right at their own school.

What's in it for me?

The Innovation Generation pathways, including IT/Computer Science, give students both classroom and hands-on experiences that help prepare them for college or a job after high school.

Some of the jobs in IT/Computer Science include:

Software developer,
median annual pay: $90,000

Computer Hardware Engineer,
median annual pay: $106,930

Computer Systems Analyst,
median annual pay: $79,680

Web Developer,
median annual pay: $62,500

Programmer,
median annual pay: $74,280

Gahanna-Jefferson Courses

High school students can enroll in pathway courses beginning in fall of 2015. Most courses will offer **dual-enrollment**, meaning students can gain both high school and college credit while gaining exposure to fields such as **computer science, programming** and **networking.**

These are foundational courses that will provide exposure to computer science and programming. Courses with course codes provide dual credit opportunities.

Information Technology I
GLHS and Eastland-Fairfield Career and Technical School have partnered to create this comprehensive technology training course. IT students will have the opportunity to learn about computer networking, web design, video editing, programming logic, keyboarding, online safety, and online etiquette. Students will work with various software programs, including Microsoft Office. Numerous web-based tools will also be incorporated into the course to enhance projects and overall student learning experiences.

CSCI 1103 Intro to Programming*
Intro. to Programming introduces concepts of programming logic through algorithmic solutions applied to problem-domain scenarios. Examples of these scenarios are Computer Science disciplines such as programming languages, networking, operating systems, databases, and others. This course covers the basic units of logic: sequence, selection, and loop. Students repair faculty algorithmic solutions. This course also uses basic UML (United Modeling Language) notation to model problem-domain objects, via classes.

Multimedia Production
Multimedia refers to the integration of still and moving images, text and sound by means of computer technology. Students will learn how to develop and publish multimedia products using various hardware and software, with an emphasis on Adobe Studio: Fireworks (Graphics), Flash (Animation) and Dreamweaver (Web Site Design and management). In addition to learning technical know-how, students will exercise their imagination, organization, management, and originality skills daily.

CSCI 1101 Computer Concepts*
Computer Concepts is designed to provide students with a working knowledge of computer concepts and essential skills necessary for work and communication in today's society. Topics include social networking, computer security, safety, ethics, privacy, operating systems and utility programs, communications and networks, input, output, systems units, storage, word processing, spreadsheets, databases and presentation software.

JAVA Programming
Java Programming teaches the basics of programming computers using Java. The course covers many programming topics as well as problem-solving strategies needed to program. This is not an AP course, but it is difficult in nature requiring good logical thinking skills and daily work as the course builds.

* This course provides high school IT credit and three hours of college credit through Columbus State Community College upon successful completion of the course.