

What is information technology (IT)?

Information technology is the use of hardware and software to create, process, store, secure and exchange all forms of electronic data. The end goal of using Information Technology is to improve business operations and our personal lives!

Careers in IT:

IT jobs are in high demand, in Dayton and all around the nation!



work with data

Data Analytics is a growing space in IT! Become a Data Analyst, Data Scientist, or Data Architect and use data to help businesses improve!



keep it secure

Cybersecurity is becoming more important every day! With bad hackers stealing from businesses, security professionals work against the bad guys to protect the important things!

Have you heard of coding? With the use of coding, developers make things like websites or apps for phones!



make an app



Engineers are the designers and builders in IT! Hardware engineers build the pieces you can touch where software engineers build the programs that make the hardware come to life!

team captain



IT Managers are the Team Leaders. After years of practice in IT, you can become a manager and oversee the IT needs of an organization!



help people fix things

In IT support, you use your problem solving skills and knowledge of technology to help people fix their computers or programs!

This sounds cool! Now what?

Community Resources

There are many resources in the community if you are interested in technology! Check out after school programs or camps such as the ones mentioned below

Back to Basics Youth Education Center
www.lbtbyec.org

BTBYEC serves to introduce computer education, provide instruction in computer coding and explain techniques to use for career exploration for middle and high school students.

Cyber Warrior Princess
www.cyberwarriorprincess.org

Cyber Warrior Princess aims to reach out to students in middle and high school to open the possibility of pursuing careers in cybersecurity! Their clubs provide a fun and encouraging time for girls to learn the technical and soft skills required to be successful in cybersecurity.

Also check your local libraries, churches, and cities for programs near you!

Dayton libraries: www.daytonmetrolibrary.org
Greater Dayton YMCA: www.daytonymca.org

High School Programs

STEM Education

Show your interest in STEM (Science, Technology, Engineering, and Mathematics)!! Many High Schools in the Dayton region have STEM or Career Technology programs

High School programs such as...

- Alter High School
- Centerville High School
- Chaminade-Julienne High School
- Dayton Public School's Ponitz Career Technology Center
- Dayton Regional STEM School
- Greene County Career Center
- Greenville High School
- Kettering-Fairmont High School
- Miami Valley Career Technology Center
- Miamisburg High School
- Springfield-Clark Career Tech Center
- Stebbins High School
- Wayne High School
- ...and more!

Ask your schools about:
Career Fairs
Coding Camps
Internships
Power Lunches
Robotics Challenges

Internship Resources:

Montgomery County Youth Career Services:
www.thejobcenter.org/ycs365
SOCHE Engage: www.soche.org/engage/

Get a Degree or Certificate in IT!

Most careers in IT require certificates and degrees in different areas of technology.

Higher Education

Colleges have a lot to offer to prepare you to work in IT. Many IT professionals earn 2-year, 4-year, and Graduate degrees as well as complete Certificates before starting their careers.

Degrees such as...

Automation & Control Technology
Computer Science
Cybersecurity
Data Science
Engineering: Computer, Electrical, Mechanical or Software
Management Information Systems (MIS)

From colleges such as...

Cedarville University
Central State University
Clark State Community College
Sinclair Community College
University of Dayton
Wittenberg University
Wright State University

Get a Head Start!

Did you know you can earn certificates during high school through some of the Career Tech Programs? It's true!