

Software Engineering and IT Program

Please visit us at for the programs full website!

www.centervilleit.com

Ask yourself what do you want in a career?

(If you look at the Top 25 lists you will find IT placed all over them!)

- Best Companies to work # 1, 3, 6, 14, 19, 23, 25
- Fast-Growing Careers #1, 4, 17, 23, 24, 25
- Best Paying Careers with a bachelor's degree # 2, 5, 7, 8, 12, 17

Here is what the Software Engineering Program has to offer:

No other program offers a more comprehensive programming curriculum with national recognized achievement.

Programming and Software Development

Junior Year

Visual Basic Programming

Variables, Selection
Structures, looping
structures, Sub
Procedures,
Functions, Arrays
Sequential File
String Processing,
Databases

ASP

Web Applications,
Stylesheets, Master
Pages, Gridview,
Formview,
Navigation, User
Controls, Validating
User Input

Senior Year

C# programming

Methods, Inheritance,
UML, Arrays,
Enumerations, Collections,
Polymorphism, Control
Structures, User Defined
Functions, Record (Struts),
Classes and Data
Abstraction, Pointers,
Recursion

Database

SQL, T-SQL,
ADONET, LINQ and
Concept Database
Management

Students will have the opportunity to study C++ and Java Programming during both years!

Hardware and Software

Junior Year

CompTIA's A+ Hardware and Software

Hardware, Troubleshooting, Repair & Maintenance, Operating Systems and Software, Networking, Security, and Operational Procedure

Senior Year

CompTIA's Networks+

Network technologies, Media and Topologies, Devices, Management, Tools, Security, Protocols

Web Page and Site Development

Junior Year

HTML5 and CSS

Creating Structured Documents, Links and Navigation, Images, Audio, Video, Tables, Forms, Frames, CSS, Page Layout, Design

Senior Year

JavaScript & Ajax

Operators and Expressions, Arrays, Loops, Conditional Statements, Objects, Styles, Regular Expressions, Forms, Event Model, Storing Data with Cookies

Competitions and Trips

Business Professionals of America (BPA)

Competitions (Regional, State, and National level) in C++, Java, VB, Computer Network Technology, Fundamentals of Web Design, Web Application Team, Web Site Design Team, PC Troubleshooting, Security, Mobile Phone Development, and Network Design Team

Miami Valley Tech Prep Showcase Competition

Students develop contextual real life learning projects based on their skills and knowledge. Teams are judged according to a rubric using the following criteria:
Project research and development
Authentic work based learning
Academic technical skills
Professional relationships
Presentation skills

Washington DC

Every other year our program visits Washington, D.C. to explore career fields, new technologies, and IT companies changing the way we live. Past companies include IBM, CISCO, Lockheed Martin, Neustar, Intelligent Decisions, and others. The experiences and knowledge gained has truly changed many of the student's lives.

In the last five years we have had BPA national champions in C++, VB, Computer Network

Technology, and Web Application Team. In the Tech Prep Showcase competition, we have won it every year since 2007.



2008 Miami Valley Tech Prep Showcase Champions (Hardware)



2010 National Champion Web Application Team in Washington D.C.



2008 National Champion Visual Basic Programming in Reno



Washington D.C. Trip