



## New Magnet Pathways to College and Careers

Discover all that Parkville High has to offer through our wide range of cutting-edge Magnet Pathways! We have everything you're looking for: Computer Science, Interactive Media, Cisco Network Security, Engineering, and Teaching. Get prepared for your future as a PHS Knight!

"It gives you various opportunities to show your creativity and expand on your skills in a real-world setting." -Hariti P.

"Magnet was a really great experience, propelling me into a future of designing." -Josh J.

"The Magnet Program has made me grow in a positive way academically and socially. I've learned how to solve real life problems with computing and engineering." -Zohaib S.

## Map your pathway with rigorous courses at PHS!

### 5 Magnet Pathway Options

#### Computer Science:

Programming and coding in a cutting-edge environment

#### Grade 9

**Computer Science 1 (1cr)**

#### Grade 10

**AP - Principles of Computer Science 1 (1cr)**

#### Grade 11

**AP - Computer Science A (1cr)**

#### Grade 12

**Computer Science - Linux (1cr) + Internship (1cr)**

#### Interactive Media:

Graphics and animation creation for print, devices, the web, and video games

**Interactive Media Production 1 (1cr) + Fund. of Art (1cr)**

**Interactive Media Production 2 (1cr)**

**Interactive Media Production 3 (1cr)**

**Interactive Media Production 4 (1cr)**

#### Cisco Cyber Security:

Develop a deep understanding of networking and cyber security with up-to-date technology

**Computer Science 1 (1cr)**

**Cisco Networking 1 (1cr) + Cisco Networking 2 (1cr)**

**Cyber Security (1cr)**

**Network Defense (1cr)**

#### Project Lead the Way:

Advanced engineering and design for the real world

**Project Lead the Way (PLTW) Intro to Engineering and Design (1cr)**

**PLTW 2 - Prin. of Engineering (1cr)  
PLTW 3 - Digital Electronics (1cr)**

**PLTW 4 - Computer Integrated Manufacturing (1cr)**

**PLTW 5 - Engineering Design and Development (1cr)**

#### Teacher Academy:

Gain knowledge of child development and build skills towards a career in education

**Teacher as a Profession (1cr) + Comp Sci or Fund. of Art (1cr)**

**Child Development (1cr)**

**Foundations of Curriculum and Instruction (1cr)**

**Internship (1cr)**

Every PHS Magnet Pathway is designed to deliver 5 rigorous credits in concentrated content, preparing our students for their next steps after high school!

# MAGNET

## PHS MAGNET PATHWAYS

### PROJECT LEAD THE WAY

Project Lead the Way prepares students for advanced education in engineering and technology. Mentored by engineers, students solve engineering problems with practical skills and experience engineering systems in different environments.

### INTERACTIVE MEDIA PRODUCTION

The CTE Interactive Media Production Completer is a chance to experience real-world projects and the future of computer graphics, animation, illustration, video editing, and game design! You will learn advanced applications from the Adobe Creative Cloud, and develop a personal portfolio used for college credit!

### CISCO NETWORKING & CYBER SECURITY

The Cisco Networking and CyberWatch curriculums provide an overview of the general networking and security theories, and offers practical experience, career exploration, and soft-skills development. It is recognized worldwide as the standard for training and certification in computer networking and information technology.

### TEACHER ACADEMY OF MARYLAND

The Teacher Academy of Maryland CTE completer program prepares students for post-secondary education and careers in the field of secondary education. The program focuses on teaching as a profession, and includes content on human development and curriculum instruction. Students who complete the program may earn articulated college credits to several Maryland schools!

### COMPUTER SCIENCE

Students in the Computer Science pathway learn how to be problem solvers in a digital world. They gain the tools necessary to become the leaders and innovators of tomorrow. Almost everything we interact with on a daily basis has been programmed by a computer scientist. It has become the way we define our world; either program or be programmed.

All of our programs are CTE-based Completers, which offer more towards career and college credit when compared to other high school courses!



## A NEW APPROACH TO MAGNET PROGRAMS

We've made big adjustments to Parkville's Magnet program, opening up access at an unprecedented level!

We understand that our students need to experience challenges outside of their magnet focus, so we've condensed our pathways and allowed more electives. Our changes have made it possible for our magnet students to extend outside of their chosen pathway and enjoy rigorous AP courses or advanced electives that will help them succeed as well-rounded, 21<sup>st</sup> century learners.

You don't want to miss everything that PHS has to offer. If you have any questions, please contact us immediately. We're happy to help!

For additional information, please contact:

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# PHS MAG NET

**PARKVILLE HIGH SCHOOL**  
Center of Mathematics, Science, and Computer Science