Pelham High School
Computer and Information Technology STEM Pathway

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Why choose the Computer and Information Technology Pathway?

The field of computer and information technology makes use of computers to solve problems, including hardware and software. However, computer and information technology is very broad and includes programming languages, computer system design, network architecture, website design, computer animation, robotics, technical support, and many more disciplines.

> *"I think everyone should learn how to program a computer because it teaches you how to think." --Steve Jobs*

Is this the career path for you?

- Do you enjoy solving complex technical issues?
- Do you like computer programming?
- Do you enjoy tinkering with computers?

> *"Never before in history has innovation offered promise of so much to so many in so short a time."*
> *- Bill Gates*

Why should I sign-up for the Computer and Information Technology Pathway?

This Pathway will provide you with the following benefits:

✓ Opportunity to take college courses and earn early college credits.

✓ Assistance in defining educational and career goals prior to high school graduation.

> *…It is never too early to think about your future!*

According to the U.S. Department of Labor, long-term projections for Computer and Information Technology careers to 2030 are as follows:

Career Path	Rate of Growth	Educational Experience
Computer Support Specialists	5%	Some College or Associate Degree
Web Developers	16%	Associate Degree
Database Administrators	8%	Bachelor Degree
Application Software Developers	25%	Bachelor Degree
Network Administrators	2%	Bachelor Degree
Computer Systems Analyst	10%	Bachelor Degree
Information Security Analysts	32%	Bachelor Degree
Computer Network Architects	4%	Bachelor Degree

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What courses am I required to take?

Students in the STEM Pathway are required to follow a sequence of academic courses that must include the following:

Choose Five (5) Required Courses

STEM Pathway Requirements	Recommended Year			
	9	10	11	12
Computer Application II CC		X	X	X
Spreadsheet: Excel *(College Credits Available)*			X	X
Statistics *(College Credits Available)* *			X	X
Pre-Calculus			X	X
Physics			X	X

* Indicates that students have the option to sign up for either the college course or the non-leveled course.

OR

Choose Three (3) Required Courses above and the Pinkerton CTE Program

Computer and Information Technology Pathway Requirements	Recommended Year			
	9	10	11	12
Computer Systems 1 – Maintenance (Pinkerton CTE Program)			X	
Computer Systems 2 – Networking (Pinkerton CTE Program)				X

What are the honor cord requirements for the STEM pathway?

An honor cord signifying your academic achievement in the STEM Pathway will be awarded to students who complete the following requirements:

- Completion of required and elective courses in the STEM Pathway with an overall 3.0 GPA
- Minimum overall 2.5 GPA in all high school courses