

Pelham High School

Computer and Information Technology STEM Pathway

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.
- ✓ Exposure to related field trips and guest speakers.
- ✓ 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 2026 are as follows:

<u>Career Path</u>	<u>Rate of Growth</u>	<u>Educational Experience</u>
Computer Support Specialists	11%	Some College or Associate Degree
Web Developers	13%	Associate Degree
Database Administrators	12%	Bachelor Degree
Application Software Developers	31%	Bachelor Degree
Network Administrators	6%	Bachelor Degree
Computer Systems Analyst	9%	Bachelor Degree
Information Security Analysts	28%	Bachelor Degree
Computer Network Architects	6%	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 three (3) academic courses that must include the following:

Choose Three (3) Required Courses

STEM Pathway Requirements	Recommended Year			
	9	10	11	12
Introduction to STEAM (.5 credit)	X	X		
Excel <i>(College Credits Available)</i>			X	X
Statistics <i>(College Credits Available)*</i>			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.*

In addition to the above courses, students in the pathway will follow a sequence of required courses, some are college-level and will provide the opportunity to earn college credits through the Community College System of New Hampshire:

Option #1

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

Option #2

Computer and Information Technology Pathway Requirements	Recommended Year			
	9	10	11	12
Computer Technology and Applications		X	X	X
Technology Solutions and Connections (PHS Help Desk)			X	X
Intro to Programming with Python (.5 credit)			X	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
- Participate in an approved extended learning opportunity

