

PATHWAY: Computer Science and Programming

Do you enjoy creative problem-solving, puzzles, code, or improving ideas? Is using technology to help people an exciting concept to you? Would you like to create designs from people through a workable code?

COURSES IN YELLOW are pathway concentrator courses and must be finished with a C- average or above to meet Indiana's 3rd requirement to graduate. COMPLETE ALL COURSES below with a B- or above to graduate with Academy recognition.

COURSE NAME	GRADES AVAILABLE	LENGTH	DUAL (COLLEGE) CREDITS POSSIBLE	FULFILLS CORE 40 CREDITS AS
Technology Sandbox (Intro to Computer Science)	9, 10, 11, 12	1 Semester		
PLTW HONORS INTRO TO CODING (COMPUTER SCIENCE I) (REQUIRED CONCENTRATOR COURSE)	9, 10, 11, 12	YEAR	3	SCIENCE & QUANTITATIVE REASONING
PLTW COMPUTER SCIENCE PRINCIPLES (AP COMPUTER SCIENCE II) OR	10, 11, 12	YEAR		SCIENCE & QUANTITATIVE REASONING
PLTW COMPUTER SCIENCE A: JAVA (AP COMPUTER SCIENCE II) (PICK ONE REQUIRED CONCENTRATOR COURSE)	10, 11, 12	Year		SCIENCE & QUANTITATIVE REASONING
Information Technology Support	10, 11, 12	Year		

State- and Industry-Recognized Certification: CompTIA A+

Must earn a specified certification or dual credit to graduate with Academy recognition. Apply your senior year.

If you would like to take more courses related to this pathway, check out the courses listed below!

- 3D Computer Animation and Visualization (Video Game Design)
- 3D Computer Animation and Visualization (Advanced Video Game Design)
- Business Professionals of America Club (BPA)
- Coding Lab C++/xCode (Computer Science III)
- Digital Applications and Responsibility A
- Digital Applications and Responsibility B

- Networking I
- Networking II: Infrastructure
- Networking II: Servers
- Robotics Club
- Web Design
- Work-Based Learning Capstone

Possible Careers Requiring 0-4 Years of Additional Training or Education				
Associate Digital Campaigner	Social Media Coordinator			
 Computer Programmer 	Systems Analyst			
 Computer Support Specialist 	Technical Recruiter			
Digital Marketer	Web Content Specialist			
 Health Information Technician 	Web Developer			

App Developer Artificial Intelligence Engineer Computer Information Researcher Data Scientist Additional Training or Education Game Developer Health Information Technician Instructional Designer Machine Learning Engineer

Software Engineer

Local Industry Partners					
Lake City Bank Paragon Medical	Peakey Enterprises, LLC Super Geeks and Gaming	Tecomet Warsaw Community Schools	Zimmer-Biomet		

Database Administration

	THREE GRADUATION REQUIREMENTS			
	THREE REQUIREMENTS OPTIONS (Pick at least one in EACH box)			
1	HIGH SCHOOL DIPLOMA Must complete <u>at least one</u> item Check all that apply	□ Core 40 □ Core 40 with Academic Honors □ Core 40 with Technical Honors		
2	EMPLOYABILITY SKILLS Must complete <u>at least one</u> item Check all that apply	□ Project-Based Learning Experience □ Service-Based Learning Experience □ Work-Based Learning Experience		
3	POSTSECONDARY-READY COMPETENCIES Must complete <u>at least one</u> item Check all that apply	Complete: Concentrator courses and their prerequisite courses (in YELLOW) from a pathway Maintain a C- average minimum in the CONCENTRATOR COURSES for that pathway Chosen pathway: Core 40 with Technical Honors diploma Core 40 with Academic Honors diploma AP/Dual Credit: Must earn a C- average or higher in at least three courses ACT with college-ready benchmarks SAT with college-ready benchmarks ASVAB with minimum AFQT score to qualify for placement into one of the branches of the US military State- and Industry-recognized credential or certification State-, Federal-, or Industry-recognized apprenticeship		

's Four-Year Plan

GRAD	English	Math Fill blanks with electives	Science Fill blanks with electives	Social Studies Fill blanks with electives	Physical Education/ Health or 3 FACS Fill blanks with electives	Elective Courses	Pathway and Academy Courses Fill blanks with electives	Summer School Credits
8//	Any middle school credits							
	English 9	Algebra I	Biology I	World History Civ. A or B (9-10th grade)	Preparing for College & Careers			Session A before 9 th grade
3,	(continued)	(continued)	(continued)	World History Civ. A or B (9-10th grade)	PE credit			Session B before 9 th grade
0	English 10	Geometry	Chemistry I, or ICP, or Physics I		PE credit or waiver			Session A before 10 th grade
1	(continued)	(continued)	(continued)		Health or 2 other qualifying FACS credits			Session B before 10 th grade
1	English 11	Algebra II	Qualifying Core 40 science of your choice	U.S. History				Session A before 11 th grade
1	(continued)	(continued)	(continued)	(continued)				Session B before 11 th grade
12	English 12	Quantitative reasoning or math recommended		Government				Session A before 12 th grade
1	(continued)			Economics (fulfills requirement for quantitative reasoning)				Session B before 12 th grade