Information Technology Pathway Model

Start Pre-IT
As early as grade 7
(based on readiness)

Workplace Visits
Job Shadow
Internship
Work

Computer Programmer
Salary: $66,510
Job Growth (10 yr): 4.8%
Annual Openings: 280
Average Tuition: $0 - 4,000

Supervised Experience

Work

Certificate

Computer Systems Analyst
Salary: $76,210
Job Growth (10 yr): 21.5%
Annual Openings: 1035
Average Tuition (2 yr): $7,600

Supervised Experience
Internship

Work

Associate Degree, Systems Analysis

Computer Network Architect
Salary: $91,710
Job Growth (10 yr): 15.7%
Annual Openings: 313
Average Tuition (4 yr): $39,700

Internship

Work

Bachelor's Degree, Computer Engineering

Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

Preparing students for multiple options after high school:
gainful employment and/or postsecondary study.

Information Technology Pathway Model

Secondary Pathway: **Programming and Software Development** Postsecondary Program: **Programming and Software Development**

Courses with Secondary and Post-Secondary Credits

Secondary	**7 8**	English	Algebra I	Science	Social Studies	Fine Arts	Information Technology	Programming	
	9 10	English	Geometry	Biology	US History	Health (.5) PE (.5)	Object Oriented Programming	Visual Programming	
	11	English	Algebra II	Physics	US Government & Economics	Foreign Language	Systems Analysis and Design		
	12	English	Trigonometry	Chemistry	Psychology	Foreign Language	Database Applications Development		
Post-Secondary	**Year 1 1st Semester**	English	College Seminar	Intro to Business	Computer Applications	Computer Programming	Operating Systems & Security		
	Year 1 2nd Semester	Technical Writing	Math for Information Technology	Internet Programming I	Database	Advanced C++			
	Year 2 1st Semester	College Algebra	Visual Basic I	Internet Programming II	Systems Analysis & Design	Natural Science Elective			
	Year 2 2nd Semester	Communication	Visual Basic II	Java Programming	Arts & Humanities Elective	Social Science Elective	IT Capstone		

High School CTE Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommend Electives

Visit education.ohio.gov/CareerConnections for reference information

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