



Information Technology Career Pathway

NEW North

2023-2026



EXPLORE: Click on the links to find the job titles that seem most interesting to you to learn more! Save any jobs you are interested in from this career pathway in your XELLO account so that you can create an Academic and Career Plan (ACP) later on.

Educational Level May also require work experience	Information Systems	Data and Cybersecurity	Emerging Technology	Network & Systems Infrastructure	Software Development & Programming
High School Diploma, Certification	<p style="text-align: center;"> Tech Support Technician PC Technician Web Designer○ Technical Writer○ Range \$39,600-113,300 </p>				
Certification or Technical Diploma	<p>Database Entry Specialist Quality Assurance Specialist Range \$41,200-105,600</p>	<p>Information Security Specialist★ Range \$46,500-166,800</p>	<p>Mobile App Support Range \$36,600-94,900</p>	<p>Systems Tech Range \$61,400-161,900</p>	<p>User Interface/Experience Developer○ Web Developer ★○ Range \$59,300-188,300</p>
Registered Apprenticeship	<p>IT Service Desk Technician Range \$48,000-78,000</p>	<p>Data Analyst ★ Cybersecurity Analyst★ Range \$64,400-104,600</p>			<p>Software Developer ★ Range \$79,900-129,800</p>
Associate Degree	<p>Business Systems Analyst ○ Tech Project/Product Coordinator ○ Technical Trainer Range \$40,700-137,700</p>	<p>Information Security Analyst ★ ○ Range \$66,000-174,500</p>	<p>Video Game Designer ○ Robotics Technician Application Developer ○ Range \$51,500-154,500</p>	<p>Computer Network Specialist ★○ Network Administrator ○ Software Quality Analyst Cloud Administrator Range \$51,400-138,400</p>	<p>Augmented/Virtual Reality Developer Programmer Analyst Software Developer ★ SCRUM Master Range \$54,800-139,600</p>
Bachelor Degree and beyond	<p>IT Project/Product Manager ○ Tech Director Computer & Information Systems Manager Business Intelligence Analyst Range \$77,900-207,100</p>	<p>Cyber Crime Investigator Security Architect ★ Cybersecurity Engineer ★ Chief Information Security Officer Database Developer ○ Range \$53,500-178,600</p>	<p>Data Scientist ★○ Artificial Intelligence Programmer★ Robotics Engineer○ Range \$53,700-137,700</p>	<p>Network Architect ★ Hardware Engineer ○ Data Warehouse Analyst ○ Range \$69,800-181,900</p>	<p>Web Administrator ○ Computer Programmer ★○ Computer Scientist ○ GIS Specialist ○ Range \$56,400-180,800</p>
Postsecondary Options	<p>Click HERE for Postsecondary Options</p>	<p>Click HERE for Postsecondary Options</p>	<p>Click HERE for Postsecondary Options</p>	<p>Click HERE for Postsecondary Options</p>	<p>Click HERE for Postsecondary Options</p>

★ BRIGHT OUTLOOK = these jobs are expected to grow in the future – which means more opportunities for you!
○ XELLO = you can learn more and save this job in your Xello account (note: some job titles might look a little different in Xello)



Information Technology Career Pathway In High School



A career pathway in high school must include:

- A sequence of courses (including at least 2 CTE courses)
- Two of the following components: Career and Technical Student Organization, Work-based Learning, Industry Recognized Credential, College Credit Opportunity

Career and Technical Education Courses	Must include a sequence of at least TWO Career and Technical Education courses. Should align with the curriculum standards for the pathway: <ul style="list-style-type: none"> • • 				CAREER EXPLORATION OPPORTUNITIES
Additional Employer Recommended Courses	Should align with the appropriate standards for the course for this pathway: <ul style="list-style-type: none"> • Four Years of Math • Statistics 				State: <ul style="list-style-type: none"> • Cyberg.org • Destination Imagination • First Wisconsin • Game Development Camps - UW-Whitewater • GenCyber • Girls Go CyberStart • Girls Who Code • Made By Them (MAYDM) • Vex Robotics • MKE Esports • Video Game Programming Camps - UW-Green Bay • STEAM Campus-UW-Stevens Point Regional: <ul style="list-style-type: none"> • Inspire WI • Microsoft Teals Local:
Career and Technical Student Organization	<ul style="list-style-type: none"> • Future Business Leaders of America (FBLA) Student Organization • Skills USA 				
Work-Based Learning Program Options	<ul style="list-style-type: none"> • Employability Skills (90 hrs) • State Skill Standards Co-Op- Business/IT (480 hrs/1 year) • Youth Apprenticeship- IT (450 hrs/year; 1-2 years) • Local Work-based Learning Programs that meet state quality requirements 				
	Information Systems	Data and Cybersecurity	Emerging Technology	Network & Systems Infrastructure	Software Development & Programming
Industry Recognized Credential Options Learn the skills that employers want to see! <i>Italics = must be 18 years old to obtain</i> <i>*This certification is eligible for reimbursement through the technical incentive grant</i>	IC3 Microsoft MOS*, MTA*, MCSA, MCSD, MCSE via Microsoft or Certiport Seal of Biliteracy (DPI) Certificate of Global Competence (DPI)				
	Apple CompTIA <ul style="list-style-type: none"> • IT Fundamentals A+ * • SECURITY+ • NETWORK+ • PROJECT+ • CLOUD ESSENTIALS Google IT Support Professional	Cisco <ul style="list-style-type: none"> • CCENT * • CCT • CCNA – Any specialty* CompTIA <ul style="list-style-type: none"> • SECURITY+ • NETWORK+ Palo Alto (PCCSA, PCNSA, PCNSE)	Oracle Certified Junior Associate or higher* <ul style="list-style-type: none"> • Java Foundations • Oracle Database Foundations 	Cisco <ul style="list-style-type: none"> • CCENT * • CCNA – Any specialty* LINUX- Essentials * CompTIA <ul style="list-style-type: none"> • IT Fundamentals A+ * • SECURITY+ • NETWORK+ • PROJECT+ • CLOUD ESSENTIALS 	Certiport: Swift Certification Level 1 * Google Developer Adobe* Python C++ Scrum CIW
College Credit Opportunities	You can find the list of college credit opportunities included in the postsecondary options for this pathway HERE .				Certified Network Defense Architect (CDNA)

Add your district logo here!

Information Technology Career Pathway at <Name of High School>



Your Academic and Career Plan (ACP) for this career pathway starts here...

Use this page to figure out which classes and activities you will take to prepare for this career pathway. Record your plan in XELLO.

Career and Technical Education Courses	<ul style="list-style-type: none"> • CTE Course #1 • CTE Course #2 • CTE Course #3 				Start creating your professional network through CAREER EXPLORATION PROGRAMS . Record your experiences in XELLO.								
Other Recommended Courses	<ul style="list-style-type: none"> • Course #1 • Course #2 • Course #3 				State: <ul style="list-style-type: none"> • Program Name/link #1 • Program Name/link #2 Regional: <ul style="list-style-type: none"> • Program Name/link #1 • Program Name/link #2 Local: <ul style="list-style-type: none"> • Program Name/link #1 • Program Name/link #2 								
Career and Technical Student Organization	<ul style="list-style-type: none"> • Name of CTSO 												
Work-Based Learning Options	<ul style="list-style-type: none"> • WBL Option #1 • WBL Option #2 												
Industry Recognized Credential Options <i>Italics = must be 18 years old to obtain</i>	Information Systems	Data and Cybersecurity	Emerging Technology	Network & Systems Infrastructure	Software Development & Programming								
	IRC Name/link #1 IRC Name/link #2												
	IRC Name/link #1 IRC Name/link #2	IRC Name/link #1 IRC Name/link #2	IRC Name/link #1 IRC Name/link #2	IRC Name/link #1 IRC Name/link #2	IRC Name/link #1 IRC Name/link #2								
College Credit Opportunities and Post Secondary Options You can find the list of college credit opportunities for this pathway HERE You can find the postsecondary options for this pathway HERE .	College Courses Offered at Your High School												
	Transcripted Credit <ul style="list-style-type: none"> • Name of HS Course #1, IHE granting credit • Name of HS Course #2, IHE granting credit 		AP and/or IB Courses <table border="0"> <tr> <td>Name of AP/IB Course #1</td> <td>Name of AP/IB Course #2</td> </tr> <tr> <td>- Score, College, Course</td> <td>- Score, College, Course</td> </tr> <tr> <td>- Score, College, Course</td> <td>- Score, College, Course</td> </tr> <tr> <td>- Score, College, Course</td> <td>- Score, College, Course</td> </tr> </table>			Name of AP/IB Course #1	Name of AP/IB Course #2	- Score, College, Course	- Score, College, Course	- Score, College, Course	- Score, College, Course	- Score, College, Course	- Score, College, Course
	Name of AP/IB Course #1	Name of AP/IB Course #2											
- Score, College, Course	- Score, College, Course												
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College Courses You Can Take at a College Campus Application Deadlines: October 1st: Spring Courses February 1st: Summer Courses (ECCP only) March 1st: Fall Courses													
Start College Now <ul style="list-style-type: none"> • Name of College #1, College Course #1 • Name of College #1, College Course #2 • Name of College #2, College Course #1 • Name of College #2, College Course #2 		Early College Credit Program <table border="0"> <tr> <td>- Name of College #1, College Course #1</td> <td>- Name of College #1, College Course #2</td> </tr> <tr> <td>- Name of College #2, College Course #1</td> <td>- Name of College #2, College Course #2</td> </tr> <tr> <td>- Name of College #3, College Course #1</td> <td>- Name of College #3, College Course #2</td> </tr> <tr> <td>- Name of College #4, College Course #1</td> <td>- Name of College #4, College Course #2</td> </tr> </table>			- Name of College #1, College Course #1	- Name of College #1, College Course #2	- Name of College #2, College Course #1	- Name of College #2, College Course #2	- Name of College #3, College Course #1	- Name of College #3, College Course #2	- Name of College #4, College Course #1	- Name of College #4, College Course #2	
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