



Information Technology Career Pathway <North Central WI> 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	Tech Support Technician		Technical Writer ○		
	Range \$41,070-\$100,680				
Certification or Technical Diploma	Database Entry Specialist Quality Assurance Specialist Range \$34,330-\$90,470	Information Security Specialist * Range \$34,330-\$90,470	Mobile App Support Range \$24,610-\$70,830	Systems Tech Range \$23,300-\$132,520	Web Designer ○ Range \$51,260-\$147,970
Registered Apprenticeship	IT Service Desk Technician Range \$42,512-60,012				Software Developer * Range \$55,000-120,000
Associate Degree	Business Systems Analyst ○ Tech Project/Product Coordinator ○ Technical Trainer PC Technician Range \$45,000-\$115,000	Information Security Analyst * ○ Data Warehouse Analyst ○ Range \$57,030-\$156,200	Robotics Technician Range \$51,800-\$101,060	Computer Network Specialist * ○ Network Administrator ○ Software Quality Analyst Cloud Administrator Web Administrator ○ Range \$40,000-135,780	Augmented/Virtual Reality Developer Software Developer * Web Developer * ○ User Interface/Experience Developer ○ Range \$50,320-\$148,486
Bachelor Degree and beyond	IT Project/Product Manager ○ Tech Director Computer & Information Systems Manager Business Intelligence Analyst Range \$60,000-150,000	Data Analyst * Data Scientist * ○ Cybersecurity Analyst * Cyber Crime Investigator Security Architect * Cybersecurity Engineer * Chief Information Security Officer Range \$60,000-150,000	Artificial Intelligence Programmer * Robotics Engineer Advanced Manufacturing Engineer (AI) Range \$75,000-150,000	Network Architect * Hardware Engineer ○ Systems Engineer Database Developer ○ Range \$75,000-150,000	Computer Scientist ○ GIS Specialist ○ Software Engineer Application Architect Range \$75,000-150,000
Postsecondary Options	Click HERE for Postsecondary Options	Click HERE for Postsecondary Options	Click HERE for Postsecondary Options	Click HERE for Postsecondary Options	Click HERE for Postsecondary Options

* **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 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: Local:					
Additional Employer Recommended Courses	Should align with the appropriate standards for the course for this pathway: <ul style="list-style-type: none"> • • 									
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>	<p style="text-align: center;"> IC3 Microsoft MOS*, MTA*, MCSA, MCSD, MCSE via Microsoft or Certiport Seal of Biliteracy (DPI) Certificate of Global Competence </p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%; padding: 5px;"> Apple CompTIA <ul style="list-style-type: none"> • IT Fundamentals • A+ * • SECURITY+ • NETWORK+ • PROJECT+ • CLOUD ESSENTIALS Google IT Support Professional </td> <td style="width: 20%; padding: 5px;"> 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) </td> <td style="width: 20%; padding: 5px;"> Oracle Certified Junior Associate or higher* <ul style="list-style-type: none"> • Java Foundations • Oracle Database Foundations </td> <td style="width: 20%; padding: 5px;"> 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 Certified Network Defense Architect (CDNA) </td> <td style="width: 20%; padding: 5px;"> Certiport: Swift Certification Level 1 * Google Developer Adobe* Python C++ Scrum CIW Amazon AWS Certifications - Cloud Computing </td> </tr> </table>					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 Certified Network Defense Architect (CDNA)	Certiport: Swift Certification Level 1 * Google Developer Adobe* Python C++ Scrum CIW Amazon AWS Certifications - Cloud Computing
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 Certified Network Defense Architect (CDNA)	Certiport: Swift Certification Level 1 * Google Developer Adobe* Python C++ Scrum CIW Amazon AWS Certifications - Cloud Computing						
College Credit Opportunities	You can find the list of college credit opportunities included in the postsecondary options for this pathway HERE .									

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 Name of AP/IB Course #1 - Score, College, Course - Score, College, Course - Score, College, Course			Name of AP/IB Course #2 - Score, College, Course - Score, College, Course - Score, College, Course
	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 <ul style="list-style-type: none"> - Name of College #1, College Course #1 - Name of College #2, College Course #1 - Name of College #3, College Course #1 - Name of College #4, College Course #1 			<ul style="list-style-type: none"> - Name of College #1, College Course #2 - Name of College #2, College Course #2 - Name of College #3, College Course #2 - Name of College #4, College Course #2 	