



Digital Technology Career Pathway

New North Region

2021-2022



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 <small>May also require work experience</small>	Business Analysis & Project Management	Cybersecurity	Data Technology	Network & Systems Infrastructure	Software Development & Programming
HS Diploma, Certification	<p style="text-align: center;"> Help Desk *○ Data Collection ○ IT Customer Service ○ Software (Unit) Testing *○ Range \$38,070-\$97,680 </p>				
Certification or Technical Diploma	<p> Desktop/PC Support *○ Help Desk Range \$32,330-\$88,470 </p>	<p> Information Security Specialist *○ Desktop/PC Support *○ Help Desk Range \$32,330-\$88,470 </p>	<p> Database Entry Specialist Desktop/PC Support *○ Help Desk Range \$22,610-\$68,830 </p>	<p> Desktop/PC Support *○ Systems Tech * Network Tech Support * Server Infrastructure Support BYOD Tech Range \$23,300-\$132,520 </p>	<p> Web Developer ○ Mobile App Support * Quality Assurance Specialist User Interface/Experience Developer * Range \$49,260-\$144,970 </p>
Registered Apprenticeship	<p style="text-align: center;"> Data Analyst * IT Service Desk Technician * Range \$43,760-\$118,070 </p>				<p> Software Developer * Range \$64,240-\$164,590 </p>
Associate Degree	<p> Business Systems Analyst *○ IT Project Coordinator Technical Trainer SCRUM Master * Range \$43,855-\$136,190 </p>	<p> Computer/Info Security Analyst * Vulnerability Tester Cryptographer Range \$57,030-\$156,200 </p>	<p> Database Administrator Database Entry Specialist Database Maintenance Range \$51,800-\$148,060 </p>	<p> Computer Network Specialist *○ Network Administrator * Network Architect Range \$52,040-\$135,780 </p>	<p> Web Developer ○ Mobile Application Developer Programmer Analyst * Software Developer * SCRUM Master * Network Administrator Augmented/Virtual Reality Developer * UI/UX Designer Range \$50,320-\$148,486 </p>
Bachelor Degree and beyond	<p> Tech Support Manager IT Project Manager ○ Tech Director SCRUM Master * Business Analyst Range \$59,700-169,250 </p>	<p> Cyber Crime Investigator * Security Architect * Chief Information Security Officer * Source Code Security Analyst Systems Security Specialist Range \$49,500-149,000 </p>	<p> Data Architect * Data Warehouse Analyst * Business Intelligence Analyst * Data Scientist * GIS Specialist ○ AI/Machine Learning Range \$50,200-149,000 </p>	<p> Network Architect * Hardware Engineer ○ IS Manager Development Operations Engineer Cloud Engineer Cloud Solutions Architect Systems Analyst Range \$54,700-154,900 </p>	<p> Web Administrator ○ Computer Programmer *○ Software Engineer *○ Software Developer *○ Computer Scientist ○ Application Developer *○ Range \$57,000-160,300 </p>
Postsecondary Options	<p style="text-align: center;">Click HERE for Postsecondary Options</p>	<p style="text-align: center;">Click HERE for Postsecondary Options</p>	<p style="text-align: center;">Click HERE for Postsecondary Options</p>	<p style="text-align: center;">Click HERE for Postsecondary Options</p>	<p style="text-align: center;">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)



Digital 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 Education Building Blocks for the pathway: <ul style="list-style-type: none"> • • • 					CAREER EXPLORATION PROGRAMS
Relevant Academic Courses	Should align with Education Building Blocks for this pathway: <ul style="list-style-type: none"> • • 					You can find the list of career exploration programs associated with this pathway and develop a program list specific to your region or school. Regional <ul style="list-style-type: none"> • NEW Connect IT • Tech Titans
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 					
	Business Analysis & Project Management	Cybersecurity	Data 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					Certiport: Swift Certification Level 1* Google Developer Adobe*
	Apple Certified Support Professional (ACSP) & Certified Mac Technician (ACMT) CompTIA <ul style="list-style-type: none"> • IT Fundamentals • A+* • SECURITY+ • NETWORK+ • PROJECT+ 	Cisco <ul style="list-style-type: none"> • CCENT* • CCT • CCNA – Any specialty* CompTIA <ul style="list-style-type: none"> • SECURITY+ 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)		
College Credit Opportunities	You can find the list of college credit opportunities included in the postsecondary options for this pathway HERE .					