

Information Technology Career Pathway MadREP Region 2024-2026



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 to your XELLO account so that you can create an Academic and Career Plan (ACP).

Educational Level May also require work experience	Information Systems	Data & Cybersecurity	Emerging Technology	Network & Systems Infrastructure	Software Development & Programming		
HS Diploma, Certification	Data Entry Clerk • <u>PC Technician</u> • <u>Quality Controller (Software)</u> • <u>Technical Writer</u> • <u>Tech Support Technician</u> • <u>Web Designer</u> Range \$24,710-\$94,140						
Certification or Technical Diploma	 Database Entry Specialist E-Commerce Manager Quality Assurance Specialist SEO Specialist Tech Support Spec. * O Range \$24,710-\$107,560 	 Computer Operator. Information Security Specialist * O Range \$28,710-\$121,890 	• <u>Mobile App Support</u> Range \$41,350-\$72,440	 <u>Cloud Engineer</u>* <u>Field Service Technician</u> <u>Systems Analyst</u>* <u>System Engineer</u>* <u>Systems Tech</u> Range \$45,020-\$108,620 	 Junior Web Developer * O Quality Assurance Specialist User Interface/Experience (UI/UX) Developer * O Range \$41,320-\$98,510 		
Registered Apprenticeship	• <u>IT Service Desk Technician</u> Range \$41,350-\$72,440	 Cybersecurity Analyst* Data Analyst * Range \$64,410-\$121,890 			 Software Developer * Back End Engineer * Front End Engineer * Full Stack Engineer * Range \$69,970-\$118,470 		
Associate Degree	 Business Systems Analyst * O Tech Program Manager Tech Project/Product Coordinator Technical Trainer Range \$46,250-\$108,620 	 Information Security Analyst * Cryptographer/Block Chain Engineer Database Developer * Range \$50,850-\$137,330 	 <u>Video Game Designer</u> () <u>Robotics Technician</u> <u>Application Developer</u> () Range \$42,980-\$118,470 	 Cloud Administrator * Computer Network Specialist * () Network Administrator * Software Quality Analyst Range \$50,850-\$105,520 	 Augmented/Virtual Reality <u>Developer</u> <u>Dev Ops Engineer O</u> <u>Programmer Analyst</u> <u>SCRUM Master *</u> <u>Software Developer *</u> Range \$50,850-\$118,470 		
Bachelor Degree and beyond	 Business Intel. Analyst * IT Project/Product MgrO Tech Director Computer & Info Systems (Tech Support) Manager UI/UX Manager * Range \$38,410-\$167,780 	• <u>Chief Info Security Officer</u> * • <u>Cyber Crime Investigator</u> * • <u>Cybersecurity Engineer</u> * • <u>Database Architect</u> * • <u>Security Architect</u> * Range \$50,850-\$343,930	 Artificial Intelligence Programmer* Data Scientist * () Robotics Engineer() Range \$66,010-\$118,470 	 <u>Cloud Architect</u> * <u>Data Warehouse Analyst</u> O <u>Hardware Engineer</u> O <u>Network Architect</u> * <u>System Architect</u> * Range \$50,850-\$107,560 	 <u>Computer Programmer</u>*O <u>Computer Scientist</u> O <u>Dev Ops Engineer</u>*O <u>GIS SpecialistO</u> <u>Video Game Developer</u> <u>Web AdministratorO</u> Range \$50,850-\$137,570 		
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)

\$ Salary ranges based on average annual entry-level wages through average annual experienced-level wages for the job titles in each box.

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 & Technical Education Courses	Must include a sequence of at least TWC align with the curriculum standards for the • • • <u>Destinations Career Academy virtua</u>	Career Exploration Programs State: • Girls Go CyberStart • Cyberg.org • Girls Who Code • Destination Imagination • Made By Them (MAYDM)					
Additional Employer Recommended Courses	Should align with the curriculum standards for the pathway: • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • •						
Career & Technical Student Organization	 <u>Future Business Leaders of America</u> <u>Skills USA</u> 	(FBLA) Student Organization	 <u>UW Madison College of Engineering Outreach Programs</u> <u>UW Madison IT Academy</u> <u>UW Platteville Youth Programs</u> 				
Work-Based Learning Program Options	 <u>Employability Skills</u> (90 hours) <u>State Skill Standards Co-Op- Busines</u> <u>Youth Apprenticeship- IT</u> (450 hours) Local Work-based Learning Program 	 UW-Stevens PointSTEAM Campus UW-WhitewaterGame Development Camps More <u>career exploration programs</u>. Regional: 					
College Credit Opportunities	 You can find the list of college creditions for this pathway <u>HERE</u>. 	t opportunities included in t	he postsecondary	 Madison College Career Discovery Camps <u>Inspire Madison Region</u> (Profiles & Career Dev. Activities) Hour of Code <u>Future Quest</u> Local: 			
Industry Recognized Credential Options	Information Systems	Data & Cybersecurity	Emerging Technology	Network & Systems Infrastructure	Software Development & Programming		
Learn the skills that employers want to see!	Apple Certified Support Professional	MCSA, MCSD, MCSE via <u>Microso</u>	Oracle Certified Junior	Cisco	Global Competence (DPI) Certiport: Swift Cert. Level 1*		
This certification is eligible for reimbursement to high school through the <u>technical incentive grant</u>	(ACSP) Apple Certified Mac Technician (ACMT) CompTIA • IT Fundamentals • A+ • SECURITY+ • NETWORK+ • PROJECT+ • CLOUD ESSENTIALS PMI Certified Associate in Project Management (CAPM)	 <u>CCT</u> <u>CCNA</u> - Any specialty* <u>CompTIA</u> <u>SECURITY+</u> <u>NETWORK+</u> <u>Palo Alto (PCCSA, PCNSA, PCNSE)</u> 	Associate or higher* Java Foundations Oracle Database Foundations 	 <u>CCNA</u> - Any specialty* <u>LINUX-Essentials</u> * <u>CompTIA</u> <u>IT Fundamentals</u> <u>A+</u> * <u>SECURITY+</u> <u>NETWORK+</u> <u>PROJECT+</u> <u>CLOUD ESSENTIALS+</u> <u>Certified Network</u> <u>Defense Architect (CDNA)</u> 	Google Developer Adobe* Python C++ Scrum CIW		

2024-2026

Add your district logo here!

Information Technology Career Pathway at <Name of High School>

Pathways

2023-2026

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	 CTE Course #1 CTE Course #2 CTE Course #3 		through CARE	Start creating your professional network through CAREER EXPLORATION PROGRAMS. Record your experiences in XELLO.			
Other Recommended Courses	 Course #1 Course #2 Course #3 				<u>State:</u> • Program Name/link #1 • Program Name/link #2 Regional:		
Career and Technical Student Organization	Name of CTSO		Program Na	Program Name/link #1Program Name/link #2			
Work-Based Learning Options	WBL Option #1WBL Option #2			Program Na			
Industry Recognized Credential Options	Information Systems	Data and Cybersecurity	Emerging Technology	Network & Systems Infrastructure	Software Development & Programming		
Italics = must be 18 years old to obtain	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	College Courses Offered at Your High School						
Opportunities and Post Secondary Options You can find the list of college credit	 Transcripted Credit 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			
opportunities for this pathway <u>HERE</u> You can find the postsecondary options for this pathway <u>HERE</u> .	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 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- 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				