Suggested Skills for Success
Technology Path – Information Technology

This career path focuses on the building linkages in information technology occupations for entry-level, technical and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services.

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Programs

Computer Coding & Web Applications	Computer Repair and Technical Support
Computer Networking & Cybersecurity	Drones & GIS Technologies

Career Expectations and Work Preferences

Career Expectations and Work Preferences	• Solve problems that many have multiple correct solutions (programming) • Enjoys science • Understand ethical considerations of using digital content (copyright/AI/privacy) • Set up/configure equipment (monitors, wireless networks/printers) • Read/understand cabling diagrams • Develop/follow complex multi-step and detailed instructions • Communicate technical information to non-technical clients • Enjoys tinkering with electronics • Computer skills • Familiar with software applications • May sit for extended periods of time

Frequently Used Pathway Skills/Abilities/Strengths

Each career path has a specific set of skills/abilities that employees need for success in the industry. It is recommended that students have, are developing or can develop the skills/abilities listed below.

Sharpness of vision/hearing acuity	• Distinguish details/differences visually • Differentiate various sounds • Perceive distance/depth of objects in space
Communication	• Express/explain thoughts and ideas • Write/document/record information accurately • Listen/relay accurate information in written/verbal manner • Follow multi-step instructions in sequence • Read and interpret technical information • Understand important details in verbal and tabular formats • Social communication (appropriate social media/workplace conversations)
Physical mobility/strength Eye-hand coordination/dexterity	• Stoop/bend/walk/carry items safely • Use electronic equipment and troubleshoot issues • Work in small/confided areas and use ladders • Fine motor skills (precision hand tools/small screws/cables/wires/electronic parts) • Lift and carry heavy objects (up to 50 pounds)
Problem-solving/reasoning	• Develop/follow sequenced activities accurately • Work independently with minimal supervision • Ability to solve challenging problems without clear answers (persistence) • Determine courses of action after reading/watching instructional content • Maintain accurate records/problem-solving steps/cabling schematics • Apply mathematical logic (programming/electrical power requirements) • Understand/decipher what others need to solve problems
Academic Strengths	• Science (electronics/electricity) • Math (ratios/arrays/binary/hexadecimal/logic/flowcharts) • Oral/written communication