HIGH SCHOOL PLANNER
INFORMATION TECHNOLOGY

This information should serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this guide are only recommended coursework and should be individualized to meet each learner's education and career goals. All plans should meet high school graduation requirements as well as college entrance requirements.

	9th	10th	11th	12th
HIGH SCHOOL	Core Requirements	Core Requirements	Core Requirements	Core Requirements
	English 9 Secondary Math 1 Science World Geography	English 10 Secondary Math 2 Science World Civilizations	English 11 Secondary Math 3 (PreCalculus) Science U.S. History	English 12 Calculus or Statistics American Gov. & Citizenship
	Required Electives			
	PE, The Arts, CTE, Computer Tech., Health, Financial Literacy			
	Career Electives (Choose Three Credits)			
	9th	10th	11th	12th
	Word Processing Web Development Computer Technology	Web Development, Computer Upgrade & Repair A+, Computer Programming 1 & 2, Web Development, 3D Animation, Linux Fundamentals, Cisco Networking	Basic Networking, Computer Programming 1 & 2, 3D Animation, Advanced Multimedia, Computer Maintenance, A+. Security +, Linux, Cisco Networking, Digital Media 2	

	GTI	STATE CTE CAREER PATHWAYS	Work Based Learning	CTSO Participation
Career Enhancement Options	Basic Networking, Computer Programming 1 & 2, 3D Animation, Digital Media 2, Computer Maint. A+, Security +, Linux, Cisco Networking, Web Development	The state Information Technology pathway has these study plans to consider: Database Development & Administration, Technical Support, Digital Media, Web Development & Administration, Network Systems, Programming/Software Development For more information http://www.schools.utah.gov/cte/it/	Ask your Career Center Coordinator about Job Shadowing Internships Career Seminars	You are strongly advised to participate in Career & Technical Student Organizations. CTSOs for this cluster could be TSA or Skills USA depending on pathway of emphasis

	SLCC School of Applied Technology	Tech Training/ AS Degree	College/University
Post Secondary	Computer Support Specialist (A+), Network Administrator, Network Engineer, Network Infrastructure Tech. (CCNA), Web Programmer, Web Site Designer, Graphic Designer, Media Design Technology, Electromechanical Assembly Technician, Electronics Engineering Technician, Electronics Technology, Electronics Communication Technician. See www.slcc.edu/sat for more information	Certificate Programs: Computer Maintenance, Telecommunications Network Technology. AS/AAS Degrees: Computer Programming Design, Network Systems (CISCO), Electronic and Computer Technology, Visual Art & Multimedia, Network Systems - Word cna - For more information see: www.slcc.edu	Computer Science - Computer Engineering, Network Specialist/Computer Science/Networking, Visual Art, Multimedia Design, Systems Engineering & Systems Integration, Network Systems, Novel C N A For information about schools offering specific programs see UtahFutures

Information Technology

Building Linkages in IT Occupations Framework: For Entry Level, Technical, and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and Systems Integration Services.

Sample of Career Specialties / Occupations	**Network Design and Administration:** ❑ Communications Analyst * Data Communications Analyst * Information Systems Administrator * Information Systems Operator * Information Technology Engineer ❑ **Network:** Administrator * Analyst * Architect * Engineer * Manager * Operations Analyst * Security Analyst * Specialist * Technician * Transport Administrator ❑ PC Support Specialist * Systems Support Lead * Network Engineer ❑ **Systems:** Administrator * Engineer * Support Lead ❑ Technical Support Specialist * User Support Specialist ❑ Telecommunications Network Technician	**Database Development and Administration:** ❑ **Data:** Administrator * Analyst * Architect * Management Associate * Modeler * Modeling Specialist ❑ **Database:** Administration Associate * Administrator * Analyst * Developer * Manager * Modeler * Security Expert * DSS (Decision Support Services) * Knowledge Architect ❑ **Senior:** Database Administrator * Systems Analyst ❑ **Systems:** Administrator * Analyst ❑ Tester **Technical Writer:** ❑ Desktop Publisher * Document Specialist * Documentation Specialist * Editor ❑ **Electronic** Publications Specialist * Publisher ❑ Instructional Designer, Online Publisher ❑ **Technical** Communicator * Editor * Publications Manager * Writer **Technical Support:** ❑ Analyst * Call Center Support Representative * Content Manager ❑ **Customer:** Liaison * Service Representative * Service Professional ❑ **Help Desk:** Specialist * Technician ❑ Maintenance Technician * PC Support Specialist * PC Systems Coordinator * Product Support Engineer * Sales Support Technician * Systems Analyst ❑ **Technical:** Account Manager * Support Engineer * Support Representative ❑ Testing Engineer **Enterprise Systems Analysis and Integration:** ❑ Application Integrator * Business Continuity Analyst * Cross-Enterprise Integrator ❑ **Data:** Systems Designer * Systems Manager * Warehouse Designer ❑ E-Business Specialist * Electronic Transactions Implementer ❑ **Information Systems:** Architect * Planner ❑ **Systems:** Analyst * Architect * Integrator	**Digital Media:** ❑ 2D/3D Artist * Animator * Audio/Video Engineer * Designer * Media Specialist * Media/Instructional Designer ❑ **Multimedia:** Author * Authoring Specialist * Developer * Specialist ❑ Producer * Production Assistant * Programmer * Streaming Media Specialist * Virtual Reality Specialist ❑ **Web:** Designer * Producer * Specialist **Web Development and Administration:** ❑ **Web:** Administrator * Architect * Designer * Page Developer * Producer * Site Developer * Specialist * Webmaster – Level 1 & 2 (c) ❑ **Webmaster**	**Programming / Software Engineering:** ❑ **Applications:** Analyst * Engineer ❑ Business Analyst * Computer Engineer * Data Modeler ❑ **Operating System:** Designer/Engineer * Programmer Analyst ❑ Program Manager * Programmer * Programmer/Analyst * Project Lead ❑ **Software Applications:** Specialist * Architect * Design Engineer * Development Engineer * Engineer * QA Specialist * Tester ❑ **Systems:** Analyst * Administrator ❑ Test Engineer * Tester
Pathways	**Network Systems**	**Information Support and Services**	**Interactive Media**	**Programming and Software Development**
Cluster K&S	**Cluster knowledge and skills** ♦Academic Foundations ♦Communications ♦Problem Solving and Critical Thinking ♦Information Technology Applications ♦ Systems ♦ Safety, Health and Environmental ♦Leadership and Teamwork ♦Ethics and Legal Responsibilities ♦Employability and Career Development ♦Technical Skills			