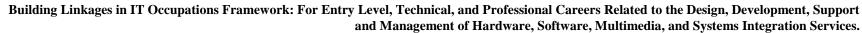# Information Technology
Farmington High School Career Cluster Program of Study

This Program of Study Template can serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. **Ask your high school counselor to help you fill in the required courses you need to graduate.**

Grade	English 8 semesters	Math 6 semesters	Science 6 semesters	Social Studies 6 semesters	Other Required Courses, Recommended Electives	Career & Technical Courses and/or Degree Major Courses	SAMPLE Occupations Relating to this Pathway
9	Comm Arts I	High School Math	High School Science	High School S.S. Course	Personal Finance Computer Science Computer Science Electives	Keyboarding, Computer Applications, Agriculture Computers	► Communications Analyst ► Data Communications Analyst ► Information Systems Administrator ► Information Systems Operator ► Information Technology Engineer ► Network Administrator ► Network Architect ► Network Engineer ► Network Manager ► Network Operations Analyst ► Network Security Analyst ► Network Specialist ► Network Technician ► Network Transport Administrator ► PC Support Specialist ► Systems Administrator ► Systems Engineer ► Systems Support Leader ► Technical Support Specialist ► Telecommunications Network Technician ► User Support Specialist
10	Comm Arts II	High School Math	High School Science	High School S.S. Course	Personal Finance Computer Science Computer Science Electives	Advanced Computer Applications, Web Design I, Web Design II, Desktop Publishing, Desktop Publishing II	
11	Comm Arts III *English Comp I *Public Speaking	Pre-College Algebra or high school math course *College Algebra *College Trig *College Calc	High School Science *College Biology *College Physics	High School S.S. Course – History & Government *College History I & II *College Political Systems	*Personal Finance *Computer Science *Computer Science Electives (Available for Dual Enrollment)	*Unitec – Computer networking classes *MAC Computer Networking Classes (Available for Dual Enrollment)	
12	Senior Comm Arts & Comm Arts elective *English Comp II *Intro to Literature	Pre- College Algebra or high school math * College Algebra *College Trig *College Calc	High School Science *MFH College Intro to Chem *College Physics	High School S.S. Course – History & Government *College History I & II *College Political Systems	*Personal Finance *Computer Science *Computer Science Electives (Available for Dual Enrollment)	*Unitec – Computer networking classes *MAC Computer Networking Classes (Available for Dual Enrollment)	

*Dual Credit courses can often be substituted for high school credit. Check with your Counselor.
*Dual Enrollment courses can be taken on a MAC campus or online.
Assessments/Certifications: College Placement Assessments, Compass, ACT, SAT
Clubs/Extracurricular Activities: Ask your Counselor what is available at your school.
Work-Based Learning: □ After School Employment   □ Internship/Mentorship   □ Job Shadowing   □ Service Learning

Administrator	Account Manager	2D/3D Artist	Administrator
Analyst	Administration Associate	Administrator	Analyst
Architect	Analyst	Animator	Architect
Communications Analyst	Application Integrator	Architect	Business Analyst
Data Communications Analyst	Architect	Audio/Video Engineer	Computer Engineer
Engineer	Business Continuity Analyst	Authoring Specialist	Data Modeler
Engineer	Call Center Support Representative	Blog Developer	Design Engineer
Information Systems Administrator	Content Manager	Designer	Designer/Engineer
Information Systems Operator	Cross-Enterprise Integrator	Developer	Development Engineer
Information Technology Engineer	Database Administrator	Media Specialist	Engineer
Manager	Desktop Publisher	Media/Instructional Designer	Program Manager
Network Consulting Engineer	Developer	Multimedia: Author	Programmer
Network Pre-Sales Engineer	Document Specialist	Page Developer	Programmer Analyst
Network: Administrator	Documentation Specialist	Producer	Project Lead
Operations Analyst	DSS (Decision Support Services)	Production Assistant	QA Specialist
PC Support Specialist	E-Business Specialist	Programmer	Analyst
Security Analyst	Editor	Search Engine Marketing Specialist	Test Engineer
Specialist	Electronic Publications Specialist	Search Engine Optimization Specialist	Tester
Support Lead	Electronic Transactions Implementer	Site Developer	
Technical Support Specialist	Help Desk Specialist	Social Networking Specialist	
Technician	Instructional Designer	Specialist	
Telecommunications Network Technician	Integrator	Streaming Media Specialist	
Transport Administrator	Knowledge Architect	Virtual Reality Specialist	
User Support Specialist	Liaison	Web Developer	
	Maintenance Technician	Webmaster	
	Management Associate		
	Manager		
	Modeling Specialist		
	Online Publisher		
	PC Support Specialist		
	PC Systems Coordinator		
	Planner		
	Product Support Engineer		
	Publications Manager		
	Publisher		
	Sales Support Technician		
	Security Expert		
	Service Professional		
	Service Representative		
	Support Engineer		
	Support Representative		
	Systems Analyst		
	Systems Designer		
	Technical Communicator		
	Technician		
	Testing Engineer		
	Warehouse Designer		
	Writer		

Path-ways	**Network Systems**	**Information Support and Services**	**Web and Digital Communications**	**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