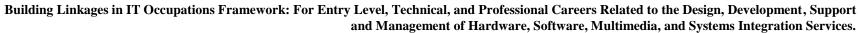


Information Technology

Fredericktown 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 Transport Administrator ➤ PC 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	*English Comp I *Public Speaking	Pre-College Algebra or high school math course *College Algebra *College Trig *College Calc	High School Science *College Biology	High School S.S. Course – History & Government *College History I & II *College Political Systems	*Microapplications *Personal Finance *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 *College Intro to Chem	High School S.S. Course – History & Government *College History I & II *College Political Systems	*Microapplications *Personal Finance *Computer Science Electives (Available for Dual Enrollment)	*Unitec – Computer networking classes *MAC Computer Networking Classes (Available for Dual Enrollment)	 ▶ Systems Administrator ▶ Systems Engineer ▶ Systems Support Leader ▶ Technical Support Specialist ▶ Telecommunications Network Technician ▶ User Support Specialis
Dual Enroll ssessment lubs/Extra	courses can often ment courses can less. Certifications: Certifications: Certifications: After Activities	be taken on a MA ollege Placement s: Ask your Cou	AC campus or o Assessments, C Inselor what is	<mark>nline.</mark> Compass, ACT, S	r school.	Service Learning	



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