



Fort Zumwalt East High School Program of Study (POS)

Career Cluster Plan of Study (Network Systems, Web and Digital Communications, Programming and Software Development, Information Support and Services) This Career Cluster Plan of Study 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. All plans should meet high school graduation requirements as well as college entrance requirements.

Grade	English 4 credits	Math 3 credits (4 recommended)	Science 3 credits	Social Studies/ Sciences 3 credits	Other Required Courses, Recommended Electives, Career & Technical Courses and/or Degree Major Courses	Additional Learning Opportunities	SAMPLE Occupations Relating to this Cluster
9	English I / Pre-AP English I	Algebra I, Geometry, Pre-AP Geom.	Physical Science, Biology, Pre- AP Biology	US History / Pre-AP US History	PE / Health or Fine Arts Foreign Language, Leadership, Word Processing, Computer Applications, Desktop Publishing, Principles of Business, Intro to Leadership, Adv. Leadership, Intro Media, Applied Media, PLTW Computer Sci and Soft Engineering	Clubs: FBLA, FCCLA, DECA, Key, NHS, STUCO	<ul style="list-style-type: none"> ▶ Database Administrator ▶ Data Systems Designer ▶ E-Business Specialist ▶ Game Developer ▶ Information Technology Engineer ▶ Media Specialist ▶ Network Administrator ▶ Network Security Analyst ▶ PC Support Specialist ▶ Programmer ▶ Software Applications Specialist ▶ Systems Administrator ▶ Telecommunications Network Technician ▶ User support Specialist ▶ Virtual Reality Specialist ▶ Web Architect/Designer
10	English II / Pre-AP English II	Geometry, Pre-AP Geom, Algebra II, Pre-AP Alg II	Biology Pre-AP Biology Chemistry Gen Physics Zoology Astron, Geology, Env Sci I/II	World History AP World Hist.	Personal Finance, Business & Personal Law, Accounting, Business Web Design, Bus. Adv. Web Design, Business & Event Management, Entrepreneurship, Marketing Concepts, Sociology	Athletics Summer Camps Job Shadow Volunteer Community Service see www.communitycouncil.org	
11	American Lit / Pre-AP American Literature / AP Lang	Geometry, Pre-AP Geom, Algebra II, Pre-AP Alg II, Pre-AP Calc, College Algebra	Chemistry, Gen Physics, Applied Biology /Chem I, AP Physics, AP Biology, AP Chem	Government, AP Govt AP US History AP W. History	Lewis and Clark Tech: Computer Maintenance Computer Inform System Adv Computer Applications, Advanced Accounting, Computer Programming General or Concepts of Psych, Social Problems, Cont Issues, AP US History	Part-time Employment Entrepreneurship Military, On-the-Job Training, Apprenticeship Ask about the articulation agreements with tech schools and community college.	
12	Senior Lit AP Lit AP Lang (or 2 sem classes	Algebra II, Algebra III, College Algebra, Pre-AP Calculus, AP Statistics, AP CalcAB or BC	See 11 th grade options, Applied Bio/Chem II	See 11 th grade options Western Civ	Lewis and Clark Tech: Computer Maintenance Computer Inform System Adv. Programming Business Internship Marketing Internship	Assessments: PSAT, ACT SAT, ASVAB MO Connections	



Post Secondary For listing of Community Colleges, Tech Schools, and 4 year colleges: www.missouriconnections.org

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	<p>Network Design and Administration: Communications Analyst * Data Communications Analyst * Information Systems Administrator * Information Systems Operator * Information Technology Engineer Network Consulting Engineer Network Pre-Sales Engineer Network: Administrator * Analyst * Architect * Engineer * Manager * Operations Analyst * Security Analyst * Specialist * Technician * Transport Administrator PC Support Specialist * Systems: Administrator * Engineer * Support Lead Technical Support Specialist * User Support Specialist Telecommunications Network Technician</p>	<p>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 * 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</p>	<p>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 Web Developer Social Networking Specialist Blog Developer * Search Engine Marketing Specialist Search Engine Optimization Specialist</p>	<p>Programming / Software Engineering: Applications: Analyst * Engineer Business Analyst * Computer Engineer * Data Modeler Operating System: Designer/Engineer * Programmer Analyst 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</p>
Pathways	Network Systems	Information Support and Services	Web and Digital Communications	Programming and Software Development
Cluster K&S	<p align="center">Cluster Knowledge and Skills</p> <p align="center">◆ 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</p>			

