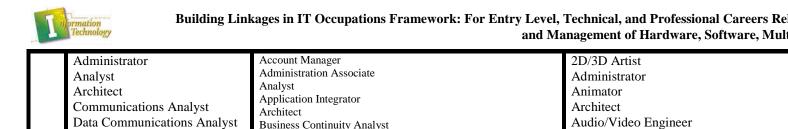


Information Technology Cape CTC Career Cluster Program of Study

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 Architect ➤ Network Manager ➤ Network Security 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	*English Comp I *Public Speaking	Pre-College Algebra or high school math course *College Algebra *College Trig	High School Science *Online College Science Course	High School S.S. Course – History & Government *College History I & II *College Political Systems	*Personal Finance *Computer Science *Computer Science Electives	*Cape Girardeau- Computer Maintenance Program	
12	Senior Comm Arts & Comm Arts elective *English Comp II *Intro to Literature	Pre- College Algebra or high school math * College Algebra *College Trig	High School Science *Online College Science Course	High School S.S. Course – History & Government *College History I & II *College Political Systems	*Personal Finance *Computer Science *Computer Science Electives	*Cape Girardeau- Computer Maintenance Program	
	*+Dual Credit or Dual Enrollment College courses can often be substituted for high school credit. Check with your Counselor.						
	Assessments/Certifications: College Placement Assessments, Compass, ACT, SAT						
	curricular Activities			· ·			
Work-Based	Learning : □ After	School Employm	ent 🗆 Interns	ship/Mentorship	□ Job Shadowing □	Service Learning	



Data Communications Analyst Engineer Call Center Support Representative Engineer **Information Systems** 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

Content Manager Cross-Enterprise Integrator Database Administrator Desktop Publisher Developer Document Specialist Documentation Specialist DSS (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

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

Product Support Engineer

Administrator Audio/Video Engineer

Authoring Specialist Blog Developer Designer Developer Media Specialist Media/Instructional Designer

Multimedia: Author Page Developer

Producer **Production Assistant** Programmer

Site Developer

Search Engine Marketing Specialist Search Engine Optimization Specialist

Social Networking Specialist Specialist

Streaming Media Specialist Virtual Reality Specialist Web Developer Webmaster

Analyst Architect **Business Analyst** Computer Engineer Data Modeler Design Engineer Designer/Engineer Development Engineer

Engineer Program Manager Programmer

Programmer Analyst

Project Lead **OA** Specialist Analyst Test Engineer Tester

Path-ways **Network Systems**

Cluster K&S

Transport Administrator

User Support Specialist

Information Support and Services

Web and Digital Communications

Programming and Software Development

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 Revised July 2009 www.careerclusters.org