



Network Systems

Course Overview: Encompass entry level, technical, and professional careers related to the design, development, and support of hardware, software, multimedia, and systems integration services.

Career Goal (O*NET Code): Computer Systems Engineer/Architect (15-1099), Computer Support Specialist (15-1041), Computer Operator (43-9011), Network Systems and Data Communications Analyst (15-1081), Computer Security Specialist (15-1071).

Student Name: _____

Grade: _____

School: _____

SUGGESTED COURSEWORK

EXTENDED LEARNING EXPERIENCES

Middle School	8th	HS Courses:		Curricular Experiences: Business Professionals of America Future Business Leaders of America SkillsUSA Technology Student Association	Extracurricular Experiences: Academic Decathlon Computer Tutor Language Immersion Programs School Newspaper Student Government UIL Academic Competitions Yearbook
	9th	Core Courses:	English I Algebra I Biology		
High School		10th	Core Courses:	English II Geometry Chemistry	World History Languages other than English II
	Career-Related Electives:		Principles of Information Technology		
	11th	Core Courses:	English III Algebra II Physics	United States History	
		Career-Related Electives:	Information Technology and Security Academy		
12th	Core Courses:	English IV Precalculus 4th year Science	Government/Economics Fine Arts	COLLEGE CREDIT OPPORTUNITIES -- High School Students should take Advanced Placement (AP), International Baccalaureate (IB), dual credit, Advanced Technical Credit (ATC), or locally articulated courses (Tech Prep), if possible. List those courses that count for college credit on your campus.	
	Career-Related Electives:	Information Technology and Security Academy			
On-the-Job Training		e-Trade Technician	Computer Maintenance Technician		Professional Associations: American Society for Engineering Education Association for Women in Computing Computer Security Institute Computing Technology Industry Association IEEE Computer Society Institute of Configuration Management National Society of Professional Engineers Texas Board of Professional Engineers
		NOTE: These experiences may be started and/or completed as part of the high school experience.			
Certificates		A+ Cisco Network Associate	Internet and Computer Core Network+	OSHA CareerSafe Panduit	Career Options: Applications Specialist Programmer Administrative Assistant Database Associate
		NOTE: Students may earn all or part of these certificates as part of the high school experience.			
Postsecondary	Associate Degrees	Applied Mathematics Computer and Information Sciences	Computer Programming Electrical and Electronic Equipment Installers and Repairers	Laser and Optical Technology Network & Information Technology	Career Options: Industrial Electronics Repairer Data Systems Technician Code Programmer Diagnostic Engineer Manufacturing Engineer Network Engineer Embedded Electronics Engineer Communication Network Designer
	Bachelor Degrees	Computer Science Computer Science - Systems Computer Engineering	Computer Systems Engineering Microelectronics Biomedical Engineering	Technology Telecommunications	
	Graduate Degrees	Computer Engineering Engineering-Robotics & Control	Manufacturing Systems Network Communications	Systems Engineering Technology Project Management	

Students may select other elective courses for personal enrichment purposes.

This plan of study serves as a guide, along with other career planning materials, for pursuing a career path and is based on the most recent information as of 2009. All plans meet high school graduation requirements as well as college entrance requirements.