



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): Network and Computer Systems Administrator (15-1071), Communications Analyst (15-1081), Computer Support Specialist (15-1041).

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
	High School	9th	Core Courses:	English I		
Career-Related Electives:			Algebra I	Physical Education		
10th		Core Courses:	Biology	Languages other than English I		
		Career-Related Electives:	Principles of Information Technology			
11th		Core Courses:	English II	World History		
		Career-Related Electives:	Geometry	Languages other than English II		
12th	Core Courses:	Chemistry				
	Career-Related Electives:	Information Technology and Security Academy				
On-the-Job Training	Certificates	Core Courses:	English III	United States History	Career Learning Experiences: Apprenticeship Career Preparation Internship Job Shadowing	Service Learning Experiences: Boy Scouts of America Campus Service Organizations Community Service Volunteer Girl Scouts of the USA Peer Mentoring / Peer Tutoring
		Career-Related Electives:	Algebra II			
Postsecondary	Associate Degrees	Core Courses:	Physics		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			
Associate Degrees	Bachelor Degrees	Core Courses:	English IV	Government/Economics	Professional Associations: Accreditation Board for Engineering and Technology, Inc. American Society for Engineering Education IEEE Computer Society Institute of Configuration Management National Council of Examiners for Engineers and Surveying National Society of Professional Engineers Texas Board of Professional Engineers	
		Career-Related Electives:	Statistics	Fine Arts		
Graduate Degrees	Graduate Degrees	Core Courses:	Environmental Systems			
		Career-Related Electives:	Information Technology and Security Academy			
On-the-Job Training	Certificates	Core Courses:	Information Systems Assistant	Computer Service Technician	Career Options: Technical Support Specialist	
		Career-Related Electives:	NOTE: These experiences may be started and/or completed as part of the high school experience.			
Associate Degrees	Bachelor Degrees	Core Courses:	A+	Internet and Computing Core	Career Options: Network Technician Documentation Writer Code Programmer Industrial Electronics Repairer Data Systems Technician	
		Career-Related Electives:	Cisco Network Associate	Network+		OSHA CareerSafe Panduit
Graduate Degrees	Graduate Degrees	Core Courses:	NOTE: Students may earn all or part of these certificates as part of the high school experience.			
		Career-Related Electives:	Information Technology and Security Academy			
Associate Degrees	Bachelor Degrees	Core Courses:	Computer Programming	Electrical and Electronic Equipment	Career Options: Network Administrator Diagnostic Support Engineer Manufacturing Support Engineer	
		Career-Related Electives:	Computer and Information Sciences	Installers and Repairers		
Graduate Degrees	Graduate Degrees	Core Courses:	Biomedical Engineering	Computer Information Systems	Career Options: Integration Engineer Wireless Device Specifier Embedded Electronics Engineer Communications Network Designer	
		Career-Related Electives:	Computer Engineering Technology	Infrastructure Assurance		
Graduate Degrees	Graduate Degrees	Core Courses:	Management Information Systems	Microelectronics		
		Career-Related Electives:	Software Engineering	Technology Project Management		
Graduate Degrees	Graduate Degrees	Core Courses:	Telecommunications			
		Career-Related Electives:	Manufacturing Systems Engineering - Robotics and Control			

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.