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): **Data Communications Analyst** (15-1081), Electronics Engineer (17-2072), Electronics Technician (17-3023), Telecommunications Repairer (49-9052).

Student Name:_____

Grade: _____

School: _____

		SUGGESTED COURSEWORK			EXTENDED LEARNING EXPERIENCES	

SUGGESTED COURSEWORK

Middle School — 8th
HS Courses:

High School

9th
Core Courses:
English I	World Geography	Professional Communications
Algebra I	Physical Education	
Biology	Languages other than English I	

Career-Related Electives: Principles of Information Technology

10th
Core Courses:
English II	World History
Geometry	Languages other than English II
Chemistry	

Career-Related Electives:

11th
Core Courses:
English III	United States History
Algebra II	
Physics	

Career-Related Electives: Information Technology and Security Academy

12th
Core Courses:
English IV	Government/Economics
Precalculus	Fine Arts
Astronomy	

Career-Related Electives: Information Technology and Security Academy

Postsecondary

On-the-Job Training
Audio & Video Equipment Technician	Production Assistant	Telecommunications Line Installers & Repairers

NOTE: These experiences may be started and/or completed as part of the high school experience.

Certificates
A+	Network +	Panduit
Cisco Network Associate	OSHA CareerSafe	

NOTE: Students may earn all or part of these certificates as part of the high school experience.

Associate Degrees
Communication Technologies Electrical and Power Transmission Installer Radio and TV Broadcasting

Bachelor Degrees
Communication Broadcasting	Computer Science	Management Information Systems
Computer Engineering Technology	Computer Information Systems	Mass Comm - Electronic Media
	Electrical Engineering	Telecommunications

Graduate Degrees
Business Broadcasting	Network Communications	Telecommunications
Computer Engineering	Technology Project Management	

Students may select other elective courses for personal enrichment purposes.

EXTENDED LEARNING EXPERIENCES

Curricular Experiences:
Business Professionals of America
Future Business Leaders of America
SkillsUSA
Technology Student Association

Career Learning Experiences:
Apprenticeship
Career Preparation
Internship
Job Shadowing

Extracurricular Experiences:
Computer Tutor
Language Immersion Programs
School Newspaper
Student Government
UIL Academic Competitions
Yearbook

Service Learning Experiences:
Boy Scouts of America
Campus Service Organizations
Community Service Volunteer
Girl Scouts of the USA
Peer Mentoring / Peer Tutoring

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.

Professional Associations:
Broadcast Education Association
IEEE Computer Society
International Radio and Television Society
Junior Chamber of Commerce
Society of Broadcast Engineers, Inc.
Xplor International

Career Options:
LAN/WAN Operator	Network Associate
Network Technician	Internet Help Desk
	IT Support Member

Career Options:
Audio Technician	Motion Media Crew Assistant
Line Crew Installer	Video Documenter

Career Options:
Network Analyst	Multimedia Specialist
Interface Developer	Program Manager
	Sound Engineer Technician

Career Options:
Communications Engineer	Media Producer
Communication Manager	Network Systems Director
	Radio/TV Engineer

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.