



Telecommunications

Career Goal (O*NET Code): Electronics Engineering Technician (17-3023), Telecommunications Line Installer and Repairer (49-9052), Network Systems and Data Communication Analyst (15-1081).

Cluster Overview: The Arts, A/V Technology & Communications Cluster focuses on careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

SUGGESTED COURSEWORK

EXTENDED LEARNING EXPERIENCES

High School	9th	Core Courses:	English I Algebra I Biology	World Geography Languages other than English I Health/PE or Equivalent	Curricular Experiences: Business Professionals of America Future Business Leaders of America SkillsUSA TSA Career Learning Experiences: Career Preparation (Paid/Unpaid) Internships Job Shadowing	Extracurricular Experiences: Community Service Organizations Student Council Service Learning Experiences: Local Volunteer Centers Local Tutoring/Mentoring Programs
		Career-Related Electives:	Introduction to Electronics or Fundamentals of Telecommunications or Communication Systems or Introduction to Media Technology			
	10th	Core Courses:	English II Geometry Chemistry	World History Languages other than English II Technology Applications		
		Career-Related Electives:	Electronics I*or Technology Systems (Modular Based Lab)** or Networking Essentials			
	11th	Core Courses:	English III Algebra II Physics	United States History Communication Applications PE or Equivalent		
		Career-Related Electives:	Electronics II* or Internetworking Technologies I* or Business Computer Programming I			
12th	Core Courses:	English IV Precalculus Environmental Systems	Government/Economics Fine Arts			
	Career-Related Electives:	Electronics III* or Computer Cabling & Design* or Internetworking Technologies II*				
Postsecondary	On-the-Job Training	CISCO			Professional Associations: Alliance for Telecommunications Industry Solutions Cable and Telecommunications Association for Marketing National Association of Radio & Telecommunications Engineers National Cable & Telecommunications Association National ITFS Association QuEST Forum Society of Cable and Telecommunications Engineers Telecommunications Industry Association Texas Cable & Telecommunications Association Women in Cable & Telecommunications	
	Certificates	A+ Entry-Level Computer Service CISCO OSHA CareerSafe	I-Net+ Internet and Online Technologies Linux+ Linux Operating Systems	Network+ Network Support & Administration SAGE Certification		
	Associate's Degrees	Recommendation to move this Program of Study to the Information Technology Career Cluster.				
	Bachelor's Degrees	Accounting Business Computer Science Electrical Engineering	Engineering Management Mathematics Mechanical Engineering			
	Graduate Degrees	Accounting Business Computer Science	Electrical Engineering Engineering Management	Mathematics Mechanical Engineering		

*May substitute for the required credit for Physical Education
 **Satisfies the required credit for Technology Applications
 ***May substitute for the required credit for Health Education

Students should take Advanced Placement (AP), International Baccalaureate (IB), dual credit, Advanced Technical Credit (ATC), or locally articulated courses, if possible.

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 2007. All plans should meet high school graduation requirements as well as college entrance requirements. Students may select other elective courses for personal enrichment purposes.