



Information Support and Services

Career Goal (O*NET Code): Database Administrator (15-1061), Help Desk/Call Support (15-1041), Data Tester (15-1051), Data Modeler (15-2031), Security Expert (15-1071), Administrator (15-1061).

Cluster Overview: Information Technology careers encompass entry level, technical, and professional careers related to the design, development, support and management of hardware, software, multimedia, and systems integration 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	<p>Curricular Experiences: Business Professionals of America Future Business Leaders of America SkillsUSA Texas Technology Student Association</p> <p>Career Learning Experiences: Career Preparation (Paid/Unpaid) Job Shadowing Internship Apprenticeship</p>	<p>Extracurricular Experiences: Academic Decathlon UIL Student Council Computer Tutor School Class Officer School Newspaper Yearbook</p> <p>Service Learning Experiences: Boy Scouts of America Community Service Volunteer Girl Scouts of the USA</p>
		Career-Related Electives	Introduction to Information Technology or Business Computer Information Systems I** or Computer Applications**			
	10th	Core Courses	English II Geometry Chemistry	World History Languages other than English II Technology Applications		
		Career-Related Electives	Business Computer Information Systems II** or Business Computer Programming I**			
	11th	Core Courses	English III Algebra II Physics	United States History Communication Applications PE or Equivalent		
		Career-Related Electives	Database Fundamentals			
	12th	Core Courses	English IV Statistics Engineering	Government/Economics Fine Arts		
		Career-Related Electives	Database Programming or related Career Preparation program* or Independent Study or Precalculus			
On-the-Job Training	Desktop Support Data Processor Administrative Assistant			<p>Professional Associations: Association for Women in Computing Business Forms Management Association Computer Technology Industry Association Geosciences Information Society Help Desk Institute IEEE Computer Society Information Technology Association of America Institute of Configuration Management National Society of Professional Engineers Texas Board of Professional Engineers</p>		
	NOTE: These experiences may be started and/or completed as part of the high school experience.					
Certificates	Microsoft Office Specialist - MOS OSHA CareerSafe Oracle Certified Database Associate			<p>Career Options: Graphics Assistant Database Associate Microsoft Specialist JAVA Programmer</p>		
	NOTE: Students may earn all or part of these certificates as part of the high school experience.					
Postsecondary	Associate's Degrees	15 hours Core Curriculum Introduction to Computers (ITSC 1X01/1X01) OR Introduction to Computing (COSC 1X00/1X00) OR Microcomputer Applications (COSC 1X01/1X01) OR Business Computer Applications (BCIS 1X05/1X05) Introduction to PC Operating Systems (ITSC 1X05/1X05) Personal Computer Hardware (ITSC 1X25/1X25) Fundamentals of Information Security (ITSY 1X00/1X00)			<p>Career Options: Computer Operator IT Service Technician Teleprocessing Specialist Database Analyst</p> <p>Licenses, Credentials & Certifications Comptia A+ Network + Demonstrate Technical writing proficiency</p>	
		Bachelor's Degrees	Management Information Systems Business Computer Information Systems Computer Systems Management Information Systems Technology	Computer Information Systems Computer Science Computer Engineering Technology Quantitative Methods or Statistics	<p>Career Options: Database Programmer System Configuration Wizard Administrator Programmer Analyst Project Manager International Support Engineer</p>	
	Graduate Degrees	Computer Information Systems Information Technology Operations Research or Management	Software Engineering Industrial Engineering Decision Sciences	<p>Career Options: Security Architect Information Scientist Software Analyst Executive Information Officer</p>		
	<p>*May substitute for the required credit for Physical Education Students should take Advanced Placement (AP), International Baccalaureate (IB), dual credit, Advanced Technical Credit (ATC), or locally articulated courses, if possible.</p> <p>**Satisfies the required credit for Technology Applications</p> <p>***May substitute for the required credit for Health Education</p>			<p>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.</p>		