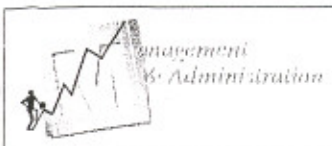
Sierra Grande



Pathway: Business Information Technology

Plan of Study: Database Administrator

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

Suggested High School Courses

High School * Default includes CDHE Higher Education Admission Requirements				
9th	Core Academic Courses*:	World Literature and Composition I, Geometry or Algebra II, Biology I, World Civilizations I	**Suggested Electives:** Basic Tech Lab
	Career Path Courses:	Introduction to Business	
10th	Core Academic Courses*:	World Literature and Composition II, Geometry or Algebra II, Earth Science, World Civilizations II	**Suggested Electives:** Advanced Tech Lab
	Career Path Courses:	Computer Applications	
11th	Core Academic Courses*:	American Literature and Composition, Trigonometry, Anatomy/Physiology or Chemistry	**Suggested Electives:** School-based Enterprise, Foreign Language
	Career Path Courses:	Business Law and Ethics	
12th	Core Academic Courses*:	English Literature and Composition, Pre-Calculus or College Algebra or Statistics, Advanced Biology or Physics	**Suggested Electives:** School-based Enterprise, Foreign Language
	Career Path Courses:	Business Management, Business Internship	

Secondary to Postsecondary Linkages & Certifications

Recognition for Advanced Learning	
	Postsecondary Credit Options: Dual Credit; Colorado Online Credit
	Industry Recognized Certificate(s) or License(s):

Postsecondary Education Opportunities	Colorado Postsecondary Programs Available	Colorado Institutions	Entrance Exams/ Requirements
Certificate	Database Programmer, Database Administrator, Business Data Processing, Computer Information Systems, Computer Systems Technology, Information Security Specialist, Information Technology	Programs available ay many Colorado Community Colleges and Area Technical Schools. For more information go to: www.collegeincolorado.org	High School diploma/GED Accuplacer
Associate Degree	Computer Information Systems Computer Science, Computer Support Professional, Computer Technologies, Information Technology	Aims Community College, Arapahoe Community College, Community College of Aurora, Front Range Community College, Pikes Peak Community College, Pueblo Community College Red Rocks Community College, Trinidad State Junior College, Mesa State College,Colorado Mountain College, Community College of Denver, Northeastern Junior College	High School diploma/GED Accuplacer
Bachelor Degree	Computer Science	Adams State College, Colorado State University, Fort Lewis College, Mesa State College More Options: www.collegeincolorado.org	See each school's Admissions website.
Graduate Degree	Computer Science, MS & PhD	University of Colorado-Boulder, University of Colorado-Denver, University of Colorado-Colorado Springs More Options: www.collegeincolorado.org	See each school's Admissions website.

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Cluster Overview: The **Management and Administration Career Cluster** prepares students for careers that encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector of the economy.

Extended Learning Experiences

Curricular Experiences:	Extracurricular Experiences:
Future Business Leaders of America Phi Beta Lamda	Computer Tutor
Work-Based Learning Experiences: Career Preparation – Paid and Unpaid, Job Shadowing, Internships	**Program Accreditation and/or Professional Association(s):** National Future Business Leaders of America-Phi Beta Lambda
Service Learning Experiences: After-school program volunteer	

	Career Options:	Salary Range:
Certificate	**Database Administrator** **Help Desk/Call Support**	**$$**
Associate Degree	**Data Modeler, IT Support Member,** **Data Tester**	**$$**
Bachelor Degree	**Security Expert, Data Communications Analyst, Interface Developer** **Program Manager**	**$$ - $$$**
Graduate Degree	**Communications Engineer, Communication Manager,** **Chief Information Officer, Database Analyst**	**$$$ - $$$$**

$ = $15-25,000; $$ = $25-55,000; $$$ = $55-90,000; $$$$ = Above $90,000

Sierra Grande School District does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities. Please direct inquiries to: *Darren Edgar, Supt. 17523 Highway 160 West, Blanca, CO 81123 719.379.3259*