



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	9 th	Core Academic Courses*:	English 9, Algebra I, Social Studies 9 / Geography, Biology 9	Suggested Electives: Art I, Intro to Marketing
		Career Path Courses:	Word Processing I, Computer Applications, Personal Management , Web Page Design	
	10 th	Core Academic Courses*:	English 10, Geometry, Earth Science, World History, Foreign Language I	Suggested Electives: Art II, Business Leadership, Accounting I
		Career Path Courses:	Word Processing II, Computer Applications, Personal Management, Web Page Design	
	11 th	Core Academic Courses*:	Technical Writing or Honors English 11, Algebra II or other math, Chemistry, American History	Suggested Electives: Economics, Student Assistant, Student Cabinet
		Career Path Courses:	Personal Management, Business Law, Project Management, STEP, Programming I, Programming II, Web Page Design	
	12 th	Core Academic Courses*:	Intermediate Comp or Speech Communication, General Statistics / AP Statistics or Math Today, Physics or other lab based science	Suggested Electives: General Psychology, Journalism, Student Assistant, Student Cabinet
		Career Path Courses:	Personal Management, Business Law, Project Management, STEP, Programming I, Programming II, Web Page Design	

Secondary to Postsecondary Linkages & Certifications

Recognition for Advanced Learning	Postsecondary Credit Options: ACP, Dual Credit, Articulated Credit through Pikes Peak Community College (PPCC)
	Industry Recognized Certificate(s) or License(s): Microsoft Certification

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		Pikes Peak Community College, Pueblo Community College
Associate Degree	Computer Information Systems Computer Science, Computer Support Professional, Computer Technologies, Information Technology		Pikes Peak Community College, Pueblo Community College	High School diploma/GED Accuplacer
Bachelor Degree	Computer Science		University of Colorado Colorado Springs, Adams State College, Colorado State University, Fort Lewis College, Mesa State College, University of Northern Colorado 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.

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

<p>Curricular Experiences:</p> <p>Future Business Leaders of America DECA</p>	<p>Extracurricular Experiences:</p> <p>Computer Tutor School Newspaper Technology Student Association</p>
<p>Work-Based Learning Experiences:</p> <p>STEP (paid and unpaid work experience), Career Preparation – Develop a Web site or database for non-profit or community organization, Job Shadowing, Internships</p>	<p>Program Accreditation and/or Professional Association(s):</p> <p>Association for Women in Computing Business Forms Management Association Help Desk Institute Information Technology Association of America International DECA National Future Business Leaders of America-Phi Beta Lambda</p>
<p>Service Learning Experiences:</p> <p>Community Service Organizations Link Crew (Freshman Sponsor Program) Community of Caring Bear Trap Counselor (6th grade field trip)</p>	

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

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

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