



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	9 th	Core Academic Courses*:	English I, Algebra I, Introduction to Physical Science, State History/Civics	Suggested Electives: PE Fine Arts
		Career Path Courses:	PC Applications, Advanced PC Applications	
* Default includes CDHE Higher Education Admission Requirements	10 th	Core Academic Courses*:	English II, Geometry, Biology, US History, Foreign Language I	Suggested Electives: PE Fine Arts
		Career Path Courses:	Multimedia, Introduction to Web Design	
	11 th	Core Academic Courses*:	English III, Algebra II/ or other math, Chemistry, Foreign Language II	Suggested Electives: PE Fine Arts
		Career Path Courses:	Desktop Publishing, Introduction to Programming	
	12 th	Core Academic Courses*:	English IV, Trigonometry or other Math, Physics or other lab based science	Suggested Electives: PE Fine Arts
		Career Path Courses:	Computer Repair and Networking, Database Design	

Secondary to Postsecondary Linkages & Certifications

Recognition for Advanced Learning	Postsecondary Credit Options: Insert Options Here: ACP, Dual Credit (CMC), PSEO, Fast College-Fast Jobs, Articulated Credit
	Industry Recognized Certificate(s) or License(s): 6 credits in CMC Computer Information Systems department

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 at many Colorado Community Colleges and Area Technical Schools. For more information go to: www.collegeincolorado.org
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.

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:
Examples: Future Business Leaders of America Skills USA DECA		Examples; Computer Tutor School Newspaper Technology Student Association
Work-Based Learning Experiences:		Program Accreditation and/or Professional Association(s):
Career Preparation – Paid and Unpaid, Job Shadowing, Internships		Examples: 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
Service Learning Experiences:		
FBLA		
Career Options:		Salary Range:
Certificate	Computer Programmers(15-1021)	\$39,500 – \$109,720
	Help Desk/Call Support(15-1041)	\$25,950 – \$69,300
	Database Administrator (15-1061)	\$38,890 – \$106,860
Associate Degree	Computer Software Engineers, Applications (15-2031)	\$52,090 - \$125,260
	Computer Software Engineers, Systems Software (15-1032)	\$55,870 - \$130,850
	Computer Systems Analysts (15-1051)	\$43,930 - \$113,670
Bachelor Degree	Network and Computer Systems Administrators(15-1071)	\$39,970 – \$101,520
	Network Systems and Data Communications Analysts (15-1081)	\$40,100 - \$105,980
Graduate Degree	Computer and Information Systems Managers (11-3021)	\$65,760 - \$136,850

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

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