



## Pathway: Management and Administration/STEM

### Plan of Study: Information Technology

**Career Goal (O\*Net Code):** 15-1099.04 Web Developers; 15-1081.00 Network Systems and Data Communications Analysts; 15-1071.00 Network and Computer Systems Administrators; 15-1021.00 Computer Programmers; 15-1041.00 Computer Support Specialists

#### Suggested High School Courses

High School * Default includes CDHE Higher Education Admission Requirements	9 <sup>th</sup>	Core Academic Courses*:	English I or English Ix, Geography, Core Plus I, Introduction to Physical Science	Suggested Electives: Arapahoe Douglas Career and Technical School. www.actinfo.org
		Career Path Courses:	*Information Processing	
	10 <sup>th</sup>	Core Academic Courses*:	English II or English IIx, US History, Core Plus II, Biology, (Elective) Foreign Language I	Suggested Electives: *Accounting 1 and 2 Business Law Business Math Principals of Tech
		Career Path Courses:	*Introduction to Business	
	11 <sup>th</sup>	Core Academic Courses*:	English III or English IIIx, World History, Core Plus III, Chemistry, (Elective) Foreign Language II	Suggested Electives: *Business Technology *Business Technology II Advanced Technology
		Career Path Courses:	*Business Tech I, *Accounting I	
	12 <sup>th</sup>	Core Academic Courses*:	English IV or ACC English 121, Government, Economics, Trigonometry/ Pre-Calculus,	Suggested Electives: ACC College Math
		Career Path Courses:	*Business Tech II, *Business Law, *Accounting II	

#### Secondary to Postsecondary Linkages & Certifications

Recognition for Advanced Learning	<b>Postsecondary Credit Options:</b> Articulated Credit (see *s above for classes that articulate and attached articulation agreement), ACP (Advanced Credit Pathway), PSEO (Post Secondary Enrollment Options - 11 <sup>th</sup> and 12 <sup>th</sup> grade, up to two classes/semester for 2 years),
	<b>Industry Recognized Certificate(s) or License(s):</b> Microsoft Certifications - <a href="http://www.microsoft.com/learning/mcp/certifications.mspx">http://www.microsoft.com/learning/mcp/certifications.mspx</a> ; MOS Cisco (CCNA) - <a href="http://www.cisco.com/web/learning/le3/learning_career_certifications_and_learning_paths_home.html">http://www.cisco.com/web/learning/le3/learning_career_certifications_and_learning_paths_home.html</a> Project Management (PMP) - <a href="http://www.pmi.org/CareerDevelopment/Pages/Certification-and-the-Job-Market.aspx">http://www.pmi.org/CareerDevelopment/Pages/Certification-and-the-Job-Market.aspx</a> Network+Security+Microsoft MCSA/MCSE, CWNA, CWSP, A+Network+ Security+ - Computer Technician - Comp TIAA+

Postsecondary Education Opportunities	Postsecondary Programs Available in Colorado		Colorado Institutions	Entrance Exams/ Requirements
	Certificate	I Computer Aided Drafting - 2D, 3D, Custom Computer Information Systems Networking Certificates (UNIX, CISCO, Microsoft Certified, Networking Security), Computer Technician Microsoft Certified System Engineer Computer Graphics, Web-Based Design/Marketing	Arapahoe Community College Community College of Denver Red Rocks Community College Westwood College	Accuplacer
	Associate Degree	Computer Information Systems (AAS) with various options Computer Network Technology, Computer Science Computer Support Professional, Business Administration AA Business Transfer Emphasis, Multimedia/Graphic Design and Illustration, Information Sciences/Studies	Aims CC, Arapahoe CC, CNCC, CCD, CCA, FRCC, ITT Technical Institute Metropolitan State College of Denver Pikes Peak Community College Red Rocks Community College Westwood	Accuplacer ACT SAT
	Bachelor Degree	Computer Information Systems/Security Computer Science Computer Systems Analysis/Analyst Computer Information Sciences and Support Systems	Air Force Academy, Colorado Mountain College, Colorado School of Mines Colorado State University, DeVry University University of Colorado, University of Colorado at C. Springs, University of Colorado at Denver, University of Denver	Accuplacer ACT SAT
	Graduate Degree	Computer Science Computer and Information Science Information Science and Studies	Colorado School of Mines, Colorado State University, Regis University, University of Colorado at Boulder, University of Colorado Health Sciences Center	GRE

Career & Technical Education is delivered through the Colorado Community College System

[www.cccs.edu](http://www.cccs.edu)



**Cluster Overview:** The **Information Technology Career Cluster** prepares students for Entry Level, Technical, and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and Systems Integration Services.

Extended Learning Experiences		
<b>Curricular Experiences:</b>  FBLA Co-op Experience Simulations (Lester Hill Corporation)	<b>Extracurricular Experiences:</b>  FBLA, TSA Business Expos Career Fairs Student Council Link Crew Peer Counseling	
<b>Work-Based Learning Experiences:</b>  Career Preparation – Paid and Unpaid, Job Shadowing, Internships, Community Employment Experience, Informational Interviews and Academic Internship (available through Advisory Committee). Co-op Experience through business Tech II	<b>Program Accreditation and/or Professional Association(s):</b>  Professional Business Leaders - (FBLA-PBL.org) Independent Computer Consultants Association Association for Women in Computing Institute for Certification of Commuting Professionals Computer Technology Industry Association Society for Information Management IEEE Computer Society	
<b>Service Learning Experiences:</b>  Required for graduation - 15 hours of community service		
Career Options:		Salary Range:
<b>Certificate</b>	<b>Computer Programmers - C++, Java, etc.</b> <b>Telecommunications Equipment - Installer and Repairer</b> <b>Computer Equipment Repairer, Electrical/Electronics Repairer</b> <b>Office Administrative Support Specialist, Desktop Publisher</b>	<b>\$\$</b>
<b>Associate Degree</b>	<b>Computer Programmers</b> <b>Graphic Designers</b> <b>Desktop Publisher</b>	<b>\$\$-\$\$\$</b>
<b>Bachelor Degree</b>	<b>Computer Programmers, Computer Science</b> <b>Computer Systems Analysts</b> <b>Computer and Information Systems Manager</b> <b>Network Systems/Data Communications Analyst</b> <b>Graphic Designers</b>	<b>\$\$\$ - \$\$\$\$</b>
<b>Graduate Degree</b>	<b>Computer Science</b> <b>Computer Systems Analysts</b> <b>Computer and Information Systems Manager</b>	<b>\$\$\$ - \$\$\$\$</b>

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

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