

Expanding the Positive Effect of Career & Technical Education



Presented by:

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COLORADO COMMUNITY
COLLEGE SYSTEM
Opportunity for a Lifetime

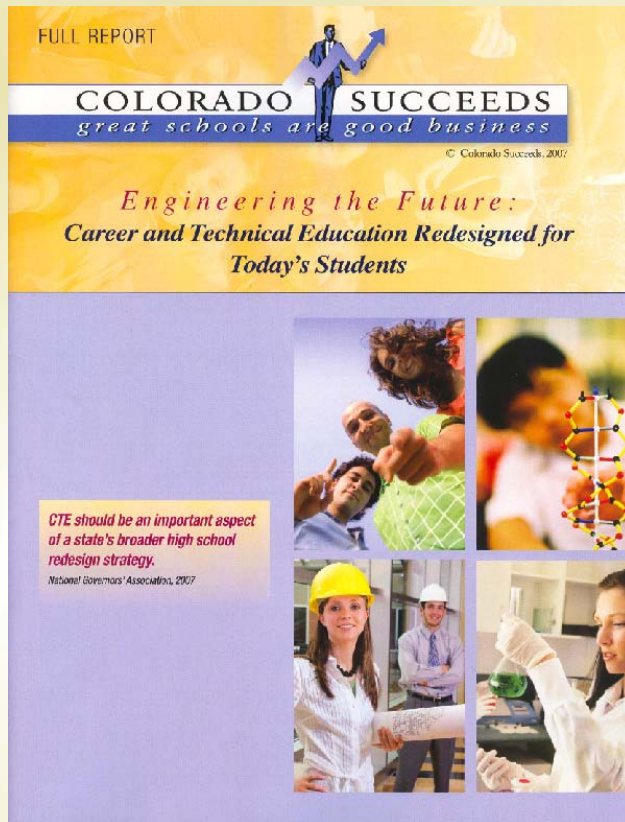


Real Change

Colorado's 21st Century CTE Programs have evolved beyond “your parents” vocational education.

They are Colorado's best kept secret for:

- Relevant & rigorous learning
- Raising achievement among all students
- Strengthening Colorado's workforce & economy!



Colorado CTE Snapshot: Secondary Programs

- 116,000+ student enrollments
 - 1,200+ programs in 160 school districts
- One out of every three Colorado high school students is gaining valuable experiences through CTE (38% and increasing)
- 94% of respondents who completed secondary CTE programs were employed in related jobs and/or continuing their education one year later



Colorado CTE Snapshot: Postsecondary Programs

- 23,798 student enrollments
 - 700 programs delivered via
 - 13 system community colleges
 - 3 local district colleges
 - 3 area technical colleges
 - State correctional facilities



The Dilemma

- 74% of the jobs today require higher skills than five years ago!
- 72% of our youth can not qualify for military service
- 62% of higher degrees go to foreign nationals
- For every 100 Colorado 9th graders, only 22 graduate with an associate's degree in 3 years or a bachelor's degree in 6 years.



Colorado's Current Pipeline

100

In Colorado,
for every 100 ninth
grade students

70

students graduate
from high school
four years later

44

students
immediately
enter college

26

students are still
enrolled in their
second year

22

students graduate with either an associate's
degree within three years or a bachelor's
degree within six years

Source: NCES 2006



New Employment Paradigm

Nearly **80%** of Colorado jobs will require some form of **postsecondary education** and **60%** will require at least a **2-year, but not a 4-year degree.**

– *Colorado Department of Labor & Employment*



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In Colorado,
for every 100 ninth
grade students

70

students graduate
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four years later

44

students
immediately
enter college

26

students are still
enrolled in their
second year

22

students graduate with either an associate's
degree within three years or a bachelor's
degree within six years

30%

26%

22%

Source: NCES 2006

How do we keep more in the pipeline?
&
How do we reengage the 78% we lost?



Real Purpose

Vision: Colorado CTE delivers proven pathways to lifelong career success!

Mission: CTE ensures a thriving Colorado economy by providing relevant and rigorous education that is **connected, responsive** and **real**.



Colorado Career Cluster Model



COLORADO COMMUNITY
COLLEGE SYSTEM

Management and Administration

- Administrative Services
- Business Information Technology
- Corporate/General Management
- Human Resource Management
- Operations Management

Marketing

- Marketing Communications
- Marketing Management
- Marketing Research
- Merchandising
- Professional Sales/Sales Management

Finance

- Accounting
- Banking Services
- Corporate Finance
- Insurance
- Securities & Investments

Government & Public Administration

- Foreign Service
- Governance
- Legal Services
- Planning
- Public Management & Administration
- Regulation
- Revenue & Taxation

Business, Marketing & Public Administration

Agriculture, Food & Natural Resources

- Animal Science*
- Agribusiness Systems
- Food Products & Processing Systems*
- Natural Resource & Environmental Systems*
- Plant Science*
- Power, Structural & Technical Systems*

Energy

- Electromechanical Generation & Maintenance*
- Electrical Energy Transmission & Distribution*
- Energy Efficiency & Environmental Technology*
- Fossil Energy Extraction, Processing & Distribution*
- Renewable Energy Production*

*STEM affiliated pathway

Agriculture, Natural Resources & Energy

Postsecondary & Workforce Readiness

Foundation knowledge & skills for all career pathways include:

- Academic Content Knowledge
- Civic Responsibility
- Collaboration
- Communication
- Creativity & Innovation
- Critical Thinking/Problem Solving
- Find/Use Information Technology
- Global & Cultural Awareness
- Personal Responsibility
- Work Ethic

Specialized CTE Pathways include:

Alternative Cooperative Education (ACE), FACS CORE & World of Work

Health Science, Criminal Justice & Public Safety

Health Science

- Biotechnology Research & Development*
- Diagnostic Services*
- Health Informatics
- Supportive Services
- Therapeutic Services*

Law, Public Safety, Corrections & Security

- Correction Services
- Emergency & Fire Management Services*
- Law Enforcement Services
- Security & Protective Services

*STEM affiliated pathway

STEM (Science, Technology, Engineering & Math)

See also STEM affiliated pathways noted by *

- Research, Exploration & Innovation
- Design, Development & Application

Arts, A/V Technology and Communication

- Audio/Video Technology & Film
- Journalism & Broadcasting
- Performing Arts
- Printing/Publishing
- Visual & Design Arts

Information Technology

- Information Support and Services
- Interactive Media
- Network Systems & Telecommunications*
- Programming & Software Engineering*

STEM, Arts, Design & Information Technology

Skilled Trades & Technical Sciences

Architecture & Construction

- Construction
- Design & Pre-construction*
- Maintenance & Operations

Manufacturing

- Health, Safety & Environmental Assurance
- Logistics & Inventory Control
- Manufacturing Production
- Maintenance, Installation & Repair
- Production/Process Technology*
- Quality Assurance

Transportation, Distribution & Logistics

- Facility & Mobile Equipment Maintenance
- Health, Safety & Environmental Management
- Logistics, Planning & Management Services
- Planning, Management & Regulation
- Sales & Service
- Transportation Operations
- Transportation/Systems Infrastructure
- Warehousing & Distribution Center Operations

*STEM affiliated pathway

Hospitality & Tourism

- Lodging
- Recreation, Amusements & Attractions
- Restaurants, Food & Beverage Services
- Travel & Tourism


Human Services

- Consumer Services
- Counseling & Mental Health Services
- Early Childhood Development
- Family & Community Services
- Personal Care Services

Education & Training

- Administration and Administrative Support
- Professional Support Services
- Teaching and Training

Hospitality, Human Services & Education

 Health Science		Pathway: Health Informatics		
Plan of Study: Medical Administration				
Career Goal (O*Net Code): Healthcare Administrator (11-9111), Medical and Health Services Manager (11-9111), Medical Assistant (31-6002), Medical Records & Health (20-2071), Medical Secretary (43-6013)				
Suggested High School Courses				
High School <small>* District includes COSE Higher Education Admission Requirements</small>	9 th	Core Academic Courses*: English I, Algebra I, Earth, Life or Environmental Science, State History/Civics Career Path Courses: Health Science (HS.I): Intro to Health Science*	Suggested Electives: Physical Education or Business Fundamentals	
	10 th	Core Academic Courses*: English II, Geometry, Biology, US History, Foreign Language I Career Path Courses: HS.II: Health, Safety and Ethics in the Health Environment*	Suggested Electives: Nutrition & Wellness or Information Technology Applications	
	11 th	Core Academic Courses*: English III, Algebra II or other, Chemistry, World History Career Path Courses: HS.III: Employment in Health Occupations*	Suggested Electives: Zoology, Speech or Accounting	
	12 th	Core Academic Courses*: English IV, Trigonometry or Statistics, Physics or Anatomy & Physiology or other lab based science, Economics/Government Career Path Courses: HS.IV: Medical Office Emphasis*	Suggested Electives: Psychology or Business Management	
	Secondary to Postsecondary Linkages & Certifications			
Recognition for Advanced Learning	Postsecondary Credit Options: Advanced Credit Pathway: HPR100 Intro to Health, HPR 101 Customer Service in Health Care, HPR 104 Health Career Options, HPR 106 Law & Ethics, HPR 170 Medical Terminology, MOT 136 Intro to Clinical Skills Industry Recognized Certificate(s) or License(s): Certified Nursing Assistant (CNA) First Responder			
	Postsecondary Programs Available in Colorado			
		Colorado Institutions	Minimum Entry Requirements	
Postsecondary Education Opportunities	Certificate	Medical Office Technologies Medical Office Management/Administration Medical Administrative Assistant	Pickens Technical College, EGOS, Community Colleges: Arns, Arapahoe, Denver, Front Range, Lamar, Morgan, Pikes Peak, Red Rocks, TSJC	High School diploma/GED Accuplacer
	Associate Degree	Medical Administrative Assistant Medical Office Technologies	Community Colleges: Arns, Arapahoe, Morgan, Pikes Peak, Red Rocks Mesa State College	High School diploma/GED Accuplacer
	Bachelor Degree	Health Care Management	Metropolitan State College of Denver	See MSCD Admissions website ACT
	Graduate Degree	Health Care Administration, MS International Health Management and Policy, MS Health Administration, MS Executive MBA (Health Administration) Public Health, MPH	University of Colorado-Colorado Springs University of Colorado-Denver University of Colorado-Denver Health Sciences Center University of Northern Colorado	See each school's Admissions website

Cluster Overview: The Health Science Career Cluster prepares students for careers in planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

Extended Learning Experiences	
Curricular Experiences: Example: Health Occupations Students of America	Extracurricular Experiences: Examples: National Youth Leadership Forum on Medicine Medical Mission Trips Special Olympics
Work-Based Learning Experiences: Career Preparation – Paid and Unpaid, Job Shadowing, Internships	Program Accreditation and/or Professional Association(s): Examples: American Association of Medical Assistants Association of University Programs Health Administration National Commission for Health Education Credentialing American Public Health Association
Service Learning Experiences: Example: Community Service Volunteer	
Career Options:	
Certificate	Salary Range*
Medical Billing Clerk Medical Office Assistant	\$ - \$\$
Associate Degree	
Medical Secretary	\$ - \$\$
Bachelor Degree	
Healthcare Administrator, Medical and Health Services Manager Public Health Educator, Patient Advocate, Data Analyst	\$\$\$ - \$\$\$\$
Graduate Degree	
Researcher, Healthcare System Manager Medical Consultant, Public Health Administrator	\$\$\$ - \$\$\$\$


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

Insert Institution Name Here does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities. Please direct inquiries to: Insert name, address and telephone number of AAJEO officer

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Plans of Study Lead to Individual Career & Academic Plans

		Pathway: Health Informatics		
Plan of Study: Medical Administration				
Career Goal (D'Net Code): Health Services Administrator (11-0111), Medical and Health Services Manager (11-0111), Medical Assistant (21-6002), Medical Records & Health (20-2071), Medical Secretary (43-6013)				
Suggested High School Courses				
High School Course Options	9 th	Core Academic Courses* English I, Algebra I, Earth, Life or Environmental Science, State History/Civics	Suggested Elective: Physical Education or Business Foundations	
	10 th	Core Academic Courses* Health Science (HS.I): Intro to Health Science*	Suggested Elective: Health Occupations Students of America	
	11 th	Core Academic Courses* English II, Geometry, Biology, US History, Foreign Language I	Suggested Elective: Health Science or Information Technology Applications	
	12 th	Core Academic Courses* HS.II: Health, Safety and Ethics in the Health Environment*	Suggested Elective: Sociology, Speech or Accounting	
	Secondary to Postsecondary Linkages & Certifications			
	Postsecondary Credit Options: Advanced Credit Pathway: HPR100 Intro to Health, HPR 101 Customer Service in Health Care, HPR 104 Health Career Options, HPR 108 Law & Ethics, HPR 175 Medical Terminology, MOT 130 Intro to Clinical Skills			
Industry Recognized Certificate(s) or License(s): Certified Nursing Assistant (CNA) First Responder				
Postsecondary Programs Available in Colorado				
Postsecondary Education Opportunities	Associate Degree	Colorado Institutions	Transfer Credit	
	Medical Office Technologies Medical Office Management/Administration Medical Administrative Assistant	Pickens Technical College, EGOS, Community College of Arapahoe, Arapahoe, Denver, Front Range, Larar, Morgan, Pikes Peak, Red Rocks, TSAC	High School diploma/ACT Associate	
	Medical Administrative Assistant Medical Office Technologies	Community College of Arapahoe, Morgan, Pikes Peak, Red Rocks Metropolitan State College	High School diploma/ACT Associate	
	Health Care Management	Metropolitan State College of Denver	See MISC Admissions website ACT	
	Health Care Administration, MS International Health Management and Policy, MS Health Administration, MS Executive MBA (Health Administration) Public Health, MPH	University of Colorado-Cororado Springs University of Colorado-Denver University of Colorado-Denver Health Sciences Center University of Northern Colorado	See each school's Admissions website	

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Extended Learning Experiences	
Curricular Experiences:	Extracurricular Experiences:
Example: Health Occupations Students of America	Example: National Youth Leadership Forum on Medical Mission Trips Special Olympics
Work-Based Learning Experiences:	Program Accreditation and/or Post-Association(s):
Career Preparation - Paid and Unpaid, Job Shadowing, Internships	Examples: American Association of Medical Assistants Association of University Programs Health National Commission for Health Education American Public Health Association
Service Learning Experiences:	
Example: Community Service Volunteer	
Career Options:	
On-Estate	Off-Estate
Medical Billing Clerk Medical Office Assistant	
Medical Secretary	
Healthcare Administrator, Medical and Health Services Manager	
Public Health Educator, Patient Advocate, Data Analyst	
Researcher, Healthcare System Manager Medical Consultant, Public Health Administrator	

* \$ = \$15-25,000; \$1 = \$25-35,000; \$5 = \$35-50,000; \$55 = Above \$50,000

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Individual Career & Academic Plan (ICAP)

Example Plans for 81 Career Pathways available at www.coloradostatespan.com under Plans of Study and at www.collegeincolorado.org.

STUDENT INFORMATION							
Name:				Grade:			
Career Cluster of Interest:				Plan Last Reviewed On: / /			
CAREER & ACADEMIC COURSEWORK							
	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade	Advanced Coursework	
English							
Math							
Social Studies							
Career Path Courses							
Additional Requirements & Electives							
EXTENDED LEARNING/CTSO ACTIVITIES							
	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade	Advanced Coursework	
School Activities							
Community Activities							
Work-based Learning/Experience							

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The Potential of Individual Career & Academic Plans (ICAP)

- Creates “Relevant” High School Experience
- Builds “Academic Momentum”
- Allow for “Learn & Earn” opportunities within Career Pathways
- Increases “Intentional” Concurrent Enrollment

Individual Career & Academic Plan (ICAP)

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STUDENT INFORMATION								
Name:					Grade:			
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CAREER & ACADEMIC COURSEWORK								
	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade	Advanced Coursework		
English								
Math								
Science								
Social Studies								
Career Path Courses								
Additional Requirements & Electives								
EXTRACURRICULAR LEARNING/ACTIVITIES								
	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade	Advanced Coursework		
School Activities								
Community Activities								
Work-based Learning Experience								

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Aligning Secondary & Postsecondary Content

Advanced Placement Opportunities

- Concurrent Enrollment
- Articulation agreements
- **ACP: Advanced Credit Pathway**
 - Awards college credit to students who master equivalent college competencies in high school CTE courses
 - Motivates students to continue learning
 - Qualifies them for the workforce sooner
 - Can save families money



Insert Institution Logo
Here

(Insert Institution Name and Program Name)
Postsecondary Plan of Study



	Pathway: Visual & Design Arts	Plan of Study: Multimedia Graphic Design			
Career Goal (O*Net Code): (Click the code to access education, skills, and employment outlook information) Multimedia Arts & Animator (27-1014) * Photographer (27-4021) Artist (27-1019) * - High Demand Career		Relevant Occupational Experience (Your Life Experiences may be worth College Credit!): CCCS Credit for Prior Learning Guide (Insert relevant occupations/skills/Military experience here and include Institution policy on Credit for Prior Learning) LMI Gateway Link to Related Occupations			
Possible Pathways to your Career!					
	Programs Available	Program Length (*Based on meeting Program Entrance Requirements)	Estimated Tuition	Career Options	Salary Range
Certificate Options	Digital Image Design to Print	15 credits (1 Sem) 21 credits (2 Sem)		Graphic Designer/ Illustrator, Multimedia Graphic Designer, Web Designer, Professional Photographer	\$ - \$\$
Associate Degrees	Multimedia Graphic Design	65 credits (4 Sem)		Graphic Designer/Illustrator, Multimedia Graphic Designer/Animator, Web Designer, Professional Photographer	\$ - \$\$\$
Articulation Opportunities to Advanced Degrees:					
Advanced Degrees	Bachelors Degree: Art & Design, with Graphic Design Emphasis	Associates Degree + 60 Credits	University of Northern Colorado	Artist, Art Director, Creative Director, Painter & Illustrator, Multimedia Artist, Animator, Art Gallery Manager, Art Teacher, Photographer, Fine Artist, Career Teacher	\$ - \$\$\$
	Graduate Degree: Art & Design, with Graphic Design Emphasis	Bachelors Degree + ?? Credits		Artist, Art Director, Creative Director, Painter & Illustrator, Multimedia Artist, Animator, Art Gallery Manager, Art Teacher, Photographer, Fine Artist, Career Teacher	\$ - \$\$\$\$
College Tuition Comparison Guide					

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

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Insert Institution Logo
Here

(Insert Institution Name and Program Name)
Postsecondary Plan of Study



Extended Learning Experiences

Support Structures:

(Insert support services for nontraditional students that exist at your institution here)

Examples: Childcare facilities, Counseling services, Tutoring services, Academic Advising

Financial Aid:

(Insert Financial Aid Opportunities for students here)

Professional Affiliations

(Insert professional organizations here)

Examples:

Media Communications Association-International

National Academy of Television Arts & Sciences

National Association of Minorities in Communications

Screen Actors Guild

World Wide Web Artists' Consortium

Practical Learning Experiences:

(Insert non-classroom learning experiences here – ie internships, job shadowing, etc...)

Insert Institution Name is accredited by the Higher Learning Commission and a member of the North Central Association of Colleges and Schools.

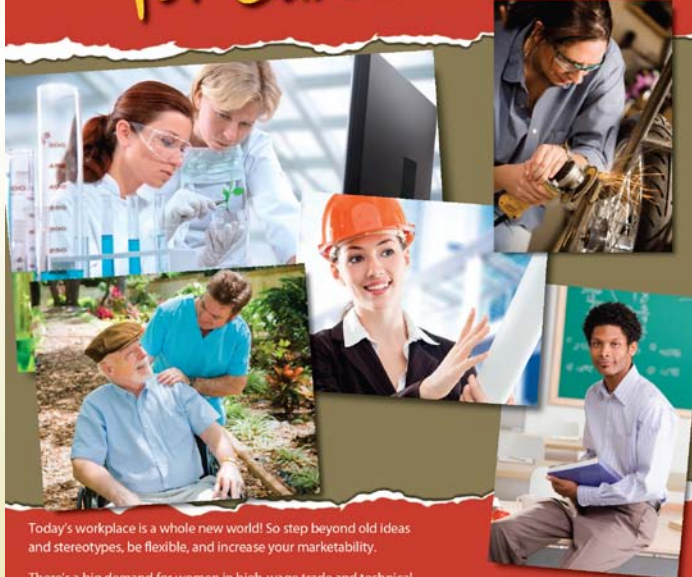
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*** This document is a guide only. It does not act as a legally binding contract.

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Reengaging Adult Learners

- Awareness campaign for Non-Traditional Learners



Real Choices for Career Success

Today's workplace is a whole new world! So step beyond old ideas and stereotypes, be flexible, and increase your marketability.

There's a big demand for women in high-wage trade and technical fields and a real need for men in careers such as healthcare, early childhood education, and cosmetology.

To get a real edge on the competition, consider adding math, science, and technical classes to your coursework. Then consider all the available opportunities and how new skills can help you get a great job, move up the career ladder, and be prepared to take advantage of the exciting new careers of today and tomorrow.

Secure Your Future!
Ask your career counselor to help you prepare for, and find, the high-demand, high-wage careers of the future. Or visit your local technical or community college for more information.

COLORADO COMMUNITY COLLEGE SYSTEM
www.cccs.edu
www.coloradocommunitycolleges.com

COLORADO Career & Technical Education
For Real



Aligning Academic & Technical Content

CAP4K Requirements

2(b): In developing the preschool through elementary and secondary education standards, the State Board shall also **take into account any Career & Technical Education standards** adopted by the State Board for Community Colleges and Occupational Education, created in Section 23-60-104, C.R.S., and, **to the extent practicable**, shall **align the appropriate portions of the preschool through elementary and secondary Education standards with the Career and Technical standards.**



What is a Valid Alignment?

- It is the point where technical and academic content **naturally collide**!
- It is **relevance** in action!
- It exists when the student must demonstrate **mastery** of the academic standard to **perform** the technical skill!



Math Example

Career Cluster/Cluster Grouping:	Marketing
Pathway(s):	Merchandising
Prepared Competencies: <ul style="list-style-type: none"> MKME.03 Information Management: Understands tools, strategies, and systems needed to access, process, maintain, evaluate, and disseminate information to assist business decision-making. 	
High School Expectations	
Concepts and skills students know include: <ul style="list-style-type: none"> MKME.03.01 Utilize information-technology tools to manage and perform merchandising responsibilities. 	
Evidence Outcomes Students can:	21st Century Skills and Readiness Competencies
a. Analyze the impact of technology on retailing. MAT2.6c RWC4.11.h RWC4.11.i b. Utilize merchandising software. MAT2.4.b c. Obtain information from retail databases to aid in product planning and control. MAT3.1.a, MAT3.1.b, MAT3.1.c	<p>Academic Content Knowledge Alignment: MAT3.1.a-Mathematics, Data Analysis, Statistics, and Probability, Design of censuses, surveys, observational and experimental studies to answer statistical questions and understand the types of inferences can legitimately be drawn from each. - Formulate appropriate research questions that can answered with statistical analysis.</p> <p>MAT3.1.b-Mathematics, Data Analysis, Statistics, and Probability, Design of censuses, surveys, observational and experimental studies to answer statistical questions and understand the types of inferences can legitimately be drawn from each. - Determine appropriate data collection methods to answer a research question.</p> <p>MAT3.1.c-Mathematics, Data Analysis, Statistics, and Probability, Design of censuses, surveys, observational and experimental studies to answer statistical questions and understand the types of inferences can legitimately be drawn from each. - Explain how data will be analyzed to provide answers to a research question.</p>



The Result

- One set of aligned Essential skills to drive Postsecondary and Workforce Readiness inclusion in all Career & Technical Education programs.
- 52 pathways with validated academic alignments
- 12 pathways with revised standards ready for alignment (currently no approved programs in these pathways)
- 21 pathways where no secondary programming currently exists. Standards and alignments will be developed as programs emerge.
- Available for review at:

www.coloradostateplan.com/content_standards.htm



CSAP Comparison of 2009 CTE Secondary Graduates

Grade 10 CSAP(07) Comparison of 2009 CTE Completers	General Population Partially Proficient, Proficient & Advanced for Math	2009 CTE graduates Partially Proficient, Proficient & Advanced for Math	Difference		General Population Partially Proficient, Proficient & Advanced for Reading	2009 CTE graduates Partially Proficient, Proficient & Advanced for Reading	Difference
State: COLORADO	64%	72.46%	8.46%		88%	94.80%	6.80%
Female	64%	69.90%	5.90%		92%	96.67%	4.67%
Male	65%	74.90%	9.90%		86%	93%	7.00%
American Indian/Alaska Native	47%	59.21%	12.21%		82%	90.13%	8.13%
Asian/Pacific Islander	77%	78.34%	1.34%		91%	96.05%	5.05%
Black (not Hispanic)	37%	45.42%	8.42%		80%	90.43%	10.43%
Hispanic	42%	53.41%	11.41%		77%	89.02%	12.02%
White (not Hispanic)	75%	79.39%	4.39%		93%	96.66%	3.66%



Real Partnerships



- Seamless Education
 - Standards Revisions & Alignment
 - Seamless Pathways through Articulation Agreements
 - Comprehensive Guidance
- Business, Industry, Colorado Department of Labor & Employment, Economic Development, etc.



Questions & Answers

Dr. Geri Anderson, Vice President & Provost, CCCS

Scott Stump, Dean of Career & Technical Education, CCCS

