

Are You Ready for Graduation Pathways? Employability Skills, Compliance and Innovation

April 17, 2019

Ben Carter, Director of Workforce and Innovation Indiana Department of Education **Andy Tucker**, Director Postsecondary Readiness Colorado Department of Education **Ryan Gensler**, Director of National Partnerships CareerWise Colorado

Graduation Pathways: Employability Skills, Compliance and Innovation

Benjamin Carter
Office of Innovation
Director of Workforce and Innovation





Graduation Pathways



- 1 Credits
- Learn & Demonstrate Employability Skills
- Postsecondary-Ready Competencies



Overview



Learn & Demonstrate Employability Skills



MINDSETS

Intellectual Risk Taking - Develops a healthy balance of mental, social/emotional and physical well-being; understands that life-long learning are necessary for long-term career success; willingness to work and learn and continually apply new knowledge

INDIANA'S EMPLOYABILITY SKILLS BENCHMARKS

LEARNING STRATEGIES

Written Communication - Applies reading, writing, math and scientific principals and procedures

Decision Making - Utilizes critical thinking skills to make informed decisions based on options, rewards, risks, limits and goals







Overview

Learn & Demonstrate Employability Skills

Project-Based

Service-Based

Work-Based

Experience + Student Work Product







Learn & Demonstrate Employability Skills

What is the work product that is required?

 Examples include but are not limited to: presentation, letter of recommendation, letter of employment verification, resume, reflection of experience, etc.

When can these experiences begin?

- Anytime between July 1 prior to freshman year through September 30 prior to submission of the Graduate Report
- Can be during the school day, after school, during breaks, etc.







Learn & Demonstrate Employability Skills

How long do they have to last?

- There is not a set number of hours for an Employability Skills experience
- Schools and districts must ensure the experience has quality, scope, and value for the student

How do schools validate completion of this requirement?

 By evaluating the student's product and tracking the completion of the experience on the student's transcript or through the school's Student Information System (SIS).







Learn & Demonstrate Employability Skills

How do I know if my experience satisfies the requirements?

 Each experience must be aligned to a specific set of design principles listed in the <u>Policy Guidance Document</u>.

Can courses be used to satisfy this requirement?

- In the Policy Guidance document, courses lending themselves to executing the design principles of each experience are listed, though completion of the courses alone does not fulfill this requirement.
- However, these experiences are not limited to these courses alone. If a student's experience or a course curriculum aligns with the design principles of any of the employability skills experiences, then that experience will qualify for this requirement.





- Learn & Demonstrate Employability Skills
 - Courses
 - Part-time employment
 - School-based enterprises
 - Apprenticeships
 - Internships

- Career and Technical Student Organizations
- Athletics
- After school programs (i.e., Marching Band)





Learn & Demonstrate Employability Skills











Learn & Demonstrate Employability Skills











Implementation Resources



Website: www.doe.in.gov/graduation-pathways

Email: DOEGradpathways@doe.in.gov





Implementation of Graduation Guidelines

Andy Tucker

Director- Postsecondary and Workforce Readiness

MORE **OPTIONS**

Graduation Guidelines

DRAFT

GRADUATION GUIDELINES | FACT SHEET

Menu of College and Career-Ready Demonstrations



Local school boards and districts select from this menu to create a list of options that their students must use to show what they know or can do in order to graduate from high school, beginning with the graduating class of 2021. School districts may offer some or all of the state menu options, may raise a cut score on an included assessment and may add graduation

Graduation Guidelines begin with the implementation of: Individual Career and Academic Plans (ICAP), Colorado Academic

Standards for all content areas including Civics and 21st Century Essential Skills.

Students must demonstrate college or career readiness in English and math based on at least one measure.

Local school boards establish high school graduation requirements that meet or exceed the Colorado Graduation Guidelines for the graduating class of 2021. Districts have the authority to adapt the college and career demonstrations

students with disabilities.

necessary to earn a standard high school diploma to accommodate for:

English learners, gifted student and

MENU OF OPTIONS: This menu lists the minimum scores required.

ACC	UPLACER		
Classic	ENGLISH 62 on Reading Comprehension OR 70 on Sentence Skills	MATH 61 on Elementary Algebra	
Next Generation	ENGLISH 241 on Reading OR 236 on Writing	MATH 255 on Arithmetic (AR) OR 230 on Quantitative Reasoning, Algebra, and Statistics (QAS)	

ACCUPLACER is a computerized test that assesses reading, writing, math and computer skills. The results of the assessment, in conjunction with a student's academic background, goals and interests, are used by academic advisors and counselors to place students in college courses that

ENGLISH	MATH
18 on ACT English	19 on ACT Math

ACT WorkKeys - National Career Readiness Certificate		
ENGLISH	MATH	
Bronze or higher	Bronze or higher	

ACT WorkKeys is an assessment that tests students' job skills in applied reading, writing, mathematics and 21st century sides. Scores are based on job profiles that help employers select, hire, trail, develop and ratio a high-performance workforce. Students who score at the bronze level (at least 3) in applied mathematics, mapping and reading earn the ACT's National Career Residiness Certificate.

	ENGLISH	MATH	
	2	2	
	AP exams test students' ability to perform at	a college level. Districts choose which AP exams w	

Advanced Placement

ENGLISH	MATH
31 on the AFQT	31 on the AFQT

District Guidance: www.cde.state.co.us/postsecondary/graduationguidel	ines

Concurrent Enrollment		
ENGLISH	MATH	
Passing grade per district and higher education policy	Passing grade per district and higher education policy	

Concurrent enrollment provides students the opportunity to enroll in postsecondary courses, simultaneously earning high school and college credit, School districts and institutions of higher education each determine passing grades for credit and courrent enrollment. An eligible concurrent enrollment course is 1) the prerequisite directly prior to a credit-bearing course or 2) a credit-bearing course.

ENGLISH	MATH
Individualized	Individualized

ENGLISH	MATH
Individualized	Individualized
industry certificates are credentials recognized l	

Industry Certificate

determined, measure a student's competency in an occupation and they validate a knowledge

International Baccalaureate (IB)		
ENGLISH	MATH	
4	4	
IB exams assess students enrolled in the official		

MATH 470 The SAT is a college entrance exam that is accepted or required at nearly all four-year colleges and universities in the U.S. The current SAT includes sections on reading, writing and math. The highest possible score for each section is 800.

SAT: Scores updated for new SAT (2016)

ENGLISH	MATH
State-wide scoring criteria	State-wide scoring criteria



www.cde.state.co.us/postsecondary/graduationg uidelines





Timeline for implementation

Adopt

revisions to meet or exceed state guidelines

Decide on

menu of options for students to demonstrate college and career readiness



Prepare to implement

with eighth-graders



Implement

2017-18 starting with ninth-graders 2018-19

with ninth and 10th-graders

2019-20 with ninth, 10th and 11th-graders



Graduate

2020-21 first class under revised guidelines







ICAP- Meaningful Career Conversations



ICAP - Individual Career and Academic Plan - is:

 A foundational tool that gives students ownership of the process that helps them explore their unique talents and aspirations, participate in career and postsecondary options, and create pathways to financial success after high school.

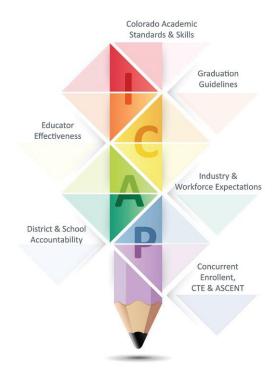
Explore

Experience

Engage

Excel

https://www.cde.state.co.us/postsecondary/icap





MORE OPTIONS

Graduation Guidelines

DRAFT

GRADUATION GUIDELINES | FACT SHEET



Menu of College and Career-Ready Demonstrations

Local school boards establish high school graduation requirements that meet or exceed the Colorado Graduation Guidelines for the graduating class of 2021.

Local school boards and districts select from this menu to create a list of options that their students must use to show what they know or can do in order to graduate from high school, beginning with the graduating class of 2021. School districts may offer some or all of the state menu options, may raise a cut score on an included assessment and may add graduation requirements in other content areas.

Graduation Guidelines begin with the implementation of: Individual Career and Academic Plans (ICAP), Colorado Academic Standards for all content areas including Civics and 21st Century Essential Skills.

Students must demonstrate college or career readiness in English and math based on at least one measure.

Districts have the authority to adapt the college and career demonstrations necessary to earn a standard high school diploma to accommodate for: English learners, gifted student and students with disabilities.

Graduation Guidelines begin with the implementation of: Individual Career and Academic Plans (ICAP), Colorado Academic Standards for all content areas including Civics and 21st Century Essential Skills





Traditional Assessments and Demonstrations

ACC	ACCUPLACER			
Classic	ENGLISH 62 on Reading Comprehension OR 70 on Sentence Skills	MATH 61 on Elementary Algebra		
Next Generation	ENGLISH 241 on Reading OR 236 on Writing	MATH 255 on Arithmetic (AR) OR 230 on Quantitative Reasoning, Algebra, and Statistics (QAS)		

ACCUPLACER is a computerized test that assesses reading, writing, math and computer skills. The results of the assessment, in conjunction with a student's academic background, goals and interests, are used by academic advisors and counselors to place students in college courses that match their skill levels.

ACT	
ENGLISH	MATH
18 on ACT English	19 on ACT Math

ACT is a national college admissions exam. It measures four subjects – English, reading, math and science. The highest possible score for each subject is 36.

SAT: Scores updated for new SAT (2016)	
ENGLISH	MATH
470	500

The SAT is a college entrance exam that is accepted or required at nearly all four-year colleges and universities in the U.S. The current SAT includes sections on reading, writing and math. The highest possible score for each section is 800.

Concurrent Enrollment		
ENGLISH	MATH	
Passing grade per district and higher education policy	Passing grade per district and higher education policy	

Concurrent enrollment provides students the opportunity to enroll in postsecondary courses, simultaneously earning high school and college credit. School districts and institutions of higher education each determine passing grades for credit and concurrent enrollment. An eligible concurrent enrollment course is 1) the prerequisite directly prior to a credit-bearing course or 2) a credit-bearing course.

Advanced Placement		
ENGLISH	MATH	
2	2	

AP exams test students' ability to perform at a college level. Districts choose which AP exams will fulfill this menu option. Scores range from 1 to 5 (highest).

	International Baccalaureate (IB)		
ENGLISH MATH			
4 4			

IB exams assess students enrolled in the official IB Diploma Programme. Courses are offered only at authorized IB World Schools. Scores range from 1 to 7 (highest).

ASVAB		
ENGLISH	MATH	
31 on the AFQT	31 on the AFQT	

The Armed Services Vocational Aptitude Battery (ASVAB) is a comprehensive test that helps determine students' eligibility and suitability for careers in the military. Students who score at least 31 are eligible for service (along with other standards that include physical condition and personal conduct). Students who take the ASVAB are not required to enlist in the military.





Performance Assessments

ACT WorkKeys - National Career Readiness Certificate		
ENGLISH	MATH	
Bronze or higher	Bronze or higher	

ACT WorkKeys is an assessment that tests students' job skills in applied reading, writing, mathematics and 21st century skills. Scores are based on job profiles that help employers select, hire, train, develop and retain a high-performance workforce. Students who score at the bronze level (at least 3) in applied mathematics, mapping and reading earn the ACT's National Career Readiness Certificate.

Collaboratively developed, standards-based performance assessment	
ENGLISH	MATH
State-wide scoring criteria	State-wide scoring criteria

District Capstone		
ENGLISH	MATH	
Individualized	Individualized	

A capstone is the culminating exhibition of a student's project or experience that demonstrates academic and intellectual learning. Capstone projects are district determined and often include a portfolio of a student's best work.

Industry Certificate		
ENGLISH	MATH	
Individualized	Individualized	
Industry certificates are credentials recognized by business and industry. They are district		

Industry certificates are credentials recognized by business and industry. They are district determined, measure a student's competency in an occupation and they validate a knowledge base and skills that show mastery in a particular industry.



GRADUATION GUIDELINES | FACT SHEET

requirements in other content areas

DRAFT

Menu of College and Career-Ready Demonstrations



MORE OPTIONS

Local school boards establish high school graduation requirements that meet or exceed the Colorado Graduation Guideline Local school boards and districts select from this menu to create a list of options that their students must use to show what they know or can do in order to graduate from high school, beginning with the graduating class of 2021. School districts may offer some or all of the state menu options, may ruise a cut score on included assessment and may add graduation and other scores.

Graduation Guidelines begin with the implementation of: Individual Career and Academic Plans (ICAP), Colorado Academ Standards for all content areas including Civics and 21st Century Essential Skills.

Students must demonstrate college or career readiness in English and math based on at least one measure.

Districts have the authority to adapt the college and career demonstrations necessary to earn a standard high school diploma to accommodate for: English learners, gifted student and students with disabilities.

MATH

Individualized

MENU OF OPTIONS: This menu lists the minimum scores required.

ACCUPLACER		
Classic	ENGLISH 62 on Reading Comprehension OR 70 on Sentence Skills	MATH 61 on Elementary Algebra
Next Generation	ENGLISH 241 on Reading OR 236 on Writing	MATH 255 on Arithmetic (AR) OR 230 on Quantitative Reasoning, Algebra, and Statistics (QAS)

ACCUPLACER is a computerized test that assesses reading, writing, math and computer skills. The results of the assessment, in conjunction with a student's academic background, goals and interests, are used by academic advisors and counselors to place students in college courses that match their skill levels.

ACT

ENGLISH	MATH
18 on ACT English	19 on ACT Math

ACT is a national college admissions exam. It measures four subjects – English, reading, math and science. The highest possible score for each subject is 36.

ACT WorkKeys - National Career Readiness Certificate

ENGLISH	MATH
ronze or higher	Bronze or higher

ACT WorkKeys is an assessment that tests students' job skills in applied reading, writing, mathematics and 21st certury skills. Scores are based on job profiles that help employers select, hier, train, develop and retain a high-performance workforce. Students who score at the bronze level (at least 3) in applied mathematics, mapping and reading earn the ACT's National Career Readiness Certificate.

Advanced Placement

ENGLISH	MATH
2	2

AP exams test students' ability to perform at a college level. Districts choose which AP exams will fulfill this menu option. Scores range from 1 to 5 (highest).

ASVAB

ENGLISH	MATH
31 on the AFQT	31 on the AFQT

The Armed Services Vocational Aptitude Battery (ASWAB) is a comprehensive test that helps determine students' eligibility and suitability for careers in the military. Students who score at least 31 are eligible for service (along with other standards that include physical condition and personal conduct). Students who take the ASWAB are not required to enlist in the military.

Concurrent Enrollment ENGLISH Passing grade per district and higher education policy higher education policy higher education policy

Concurrent enrollment provides students the opportunity to erroll in postescondary courses, simultaneously earning high school and college credit. School district and institutions of higher education each determine passing grades for credit and concurrent enrollment. An eligible concurrent enrollment course is 1) the presequisite directly prior to a credit-bearing course or 2) a credit-bearing course.

District Capstone ENGLISH

Individualized

A capstone is the culminating exhibition of a student's project or experience that demonstrates academic and intellectual learning. Capstone projects are district determined and often include a portfolio of a student's b

Industry Certificate

ENGLISH	MATH
Individualized	Individualized

Industry certificates are credentials recognized by business and industry. They are district determined, measure a sudent's competency in an occupation and they validate a knowledge base and skills that show mastery in a particular industry.

International Baccalaureate (IB)

ENGLISH	MATH
4	4

1B exams assess students enrolled in the official IB Diploma Programme. Courses are offered only at authorized IB World Schools. Scores range from 1 to 7 (highest).

SAT: Scores updated for new SAT (2016) ENGLISH MATH 470 500

The SAT is a college entrance exam that is accepted or required at nearly all four-year colleges and niversities in the U.S. The current SAT includes sections on reading, writing and math. The highest possible score for each section is 800.

Collaboratively developed, standards-based performance assessment

ENGLISH	MATH
State-wide scoring criteria	State-wide scoring criteria
(in development)	

Districts have the authority to adapt the college and career demonstrations necessary to earn a standard high school diploma to accommodate for: English learners, gifted students and student with disabilities.





Four main categories with skills embedded

- 1. Personal Skills (self-awareness, personal responsibility, resilience, etc.)
- 2. Entrepreneurial skills (critical thinking, creativity, informed risk taking, etc.)
- 3. Civic/Interpersonal Skills (collaboration, communication, civic engagement, character)
- 4. Professional skills (time management, career awareness, financial literacy, etc.)





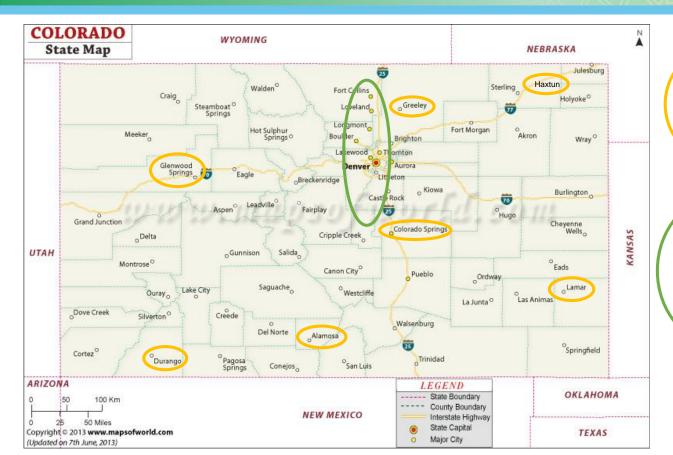
Early learnings

- Fear changing to excitement re: flexibility
- Different communities = different needs
- Lack of understanding of district-determined items
- Need for sharing of promising practices
- Need to remind stakeholders consistently of connections to ICAP and Essential Skills





PWR Symposia & Front Range Graduation Guidelines Committee



Locations of PWR symposia

Members-Front Range Graduation Guidelines Committee





Promising practices

Multiple pathways for students increase across the state

- Concurrent enrollment expansion
 - Since 2012, Concurrent Enrollment participation has increased from 19% of all students (grades 9-12) to 35%
- Industry certificate attainment
 - Commitment to work-based learning and career development
 - Additional funding to support expansion- <u>Career Development Incentive Program</u>
- Robust work in development of capstone projects- continuum
 - Gunnison School District → Roaring Fork School District
- Essential skills embedded in newly-revised Colorado Academic Standards





AN INTERMEDIARY MODEL FOR

MODERN YOUTH APPRENTICESHIP



BRIDGING THE GAP BETWEEN EDUCATION & CAREER

CareerWise Colorado connects industry and education to create a statewide, modern youth-apprenticeship system.

Apprentices earn a wage while gaining valuable workplace experience, a nationally recognized industry certification and debt-free college credit.

APPRENTICE





Industry benefits from tangible financial ROI as it makes the shift from being consumers of talent to producers of talent.

BUSINESS





K-12 and higher education institutions improve student outcomes with increased student engagement and attendance, graduation rates and collegecredit attainment.

HERE'S HOW IT WORKS

CAREERWISE APPRENTICES SPLIT TIME BETWEEN SCHOOL, TRAINING CENTERS, AND WORK ON A SCHEDULE THAT WORKS FOR STUDENTS AND BUSINESSES

		YEAR 1	YEAR 2	YEAR 3
ÎÎ	AT HIGH SCHOOL Core academic courses at school (e.g., math), some community college coursework	~3 days a week	~2 days a week	NA
	ON-THE-JOB On-the-job training, in form of occupation, rotation or projects	12 - 16 hours a week	20 - 24 hours a week	32-40 hours a week
	AT TRAINING	COLLEGE COURSES	S AND/OR TECHNICAL	TRAINING BASED



AT TRAINING CENTER

Multi-skill training curriculum in pathway-specific skills

COLLEGE COURSES AND/OR TECHNICAL TRAINING BASEI ON STUDENT GOALS & READINESS

The instruction students receive provides them with debt-free college credit and the knowledge they need for nationally-recognized industry certification. Typically, courses are taken in the second half of the apprenticeship

PATHWAY

SAMPLE OCCUPATIONS

SAMPLE EMPLOYERS

ADVANCED
MANUFACTURIN

Production technician

Quality control inspector

Maintenance technician

Logistics





INFORMATION TECHNOLOGY



Computer Technician

Software QA Tester

Junior Coder



ALTERRA MOUNTAIN COMPANY







FINANCIAL SERVICES



Accounting Clerk

Insurance Services Expert

> Financial Coordinator Customer Support





COLAVRIA

BUSINESS OPERATIONS



Project
Coordinator
Purchasing
Coordinator
Operations

Specialist









HEALTHCARE



Certified

EDUCATION (Pilot in 2019)



Nursing
Assistant
(CNA)
to Licensed
Practical Nurse

Paraprofessional
to Licensed
Teacher



(LPN)







AFTER APPRENTICESHIP

YEAR 1

12 - 16

hours a week

AT HIGH SCHOOL

ON-THE-JOB

AT TRAINING

pathway-specific skills

CENTER

On-the-job training, in form of occupation, rotation or

Multi-skill training curriculum in

YEAR 2

20 - 24

hours a week

COLLEGE COURSES BASED ON YOUR GOALS & READINESS

The instruction you receive will provide you debt-free college credit and the

knowledge you need for your nationally-recognized industry certification.

Typically, courses are taken in the second half of apprenticeship.

32-40

hours a week

Student signs on as a full-time **EMPLOYEE**



OPTION **MULTIPLIER**



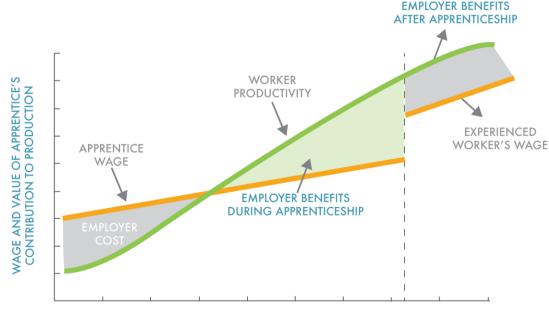
with 2- or 4-year degree

Student continues **EDUCATION** Both!

POSITIVE ROI ON APPRENTICE WORK

Swiss firms saw an ROI of 10% during the training period, and additional ROI once apprentices became full-time employees.

ILLUSTRATIVE WAGES AND PRODUCTIVITY, RELATIVE TO STANDARD FTE





EXPECTED IMPACT

Business

- Pipeline of 21st century workers
- Positive ROI
- Reduction in hiring costs
- Increased retention
- Loyal, engaged employees
- Increased innovation

Apprentice

- Skills and exposure
- Debt-free college credit
- Valued industry credential
- Established professional network
- ~\$30K earnings over course of apprenticeship

CAREERWISE COORDINATES STAKEHOLDERS

TO BUILD A STATEWIDE YOUTH APPRENTICESHIP SYSTEM THAT'S SET UP FOR TOTAL SUCCESS.

EMPLOYERS

- Recruit participating employers
- Support ID of workforce needs and occupation selection
- Provide HR and interview support
- Support job posting development
- Host online marketplace for apprenticeship applications
- Train supervisors & coaches
- Provide occupation-specific training plans & facilitate process to select training provider(s)
- Provide dedicated relationship manager

K-12 & HIGHER ED

- Provide quality framework and onboarding tools
- Train counselors, teachers and leaders
- Support recruitment & communication plans
- Provide access to career exploration tools & assessments
- Provide resume and cover letter templates
- Support partners with scheduling and budgeting
- Support standards mapping for credit accrual

APPRENTICE

- Offer informational events and materials
- Provide application sessions, including resume training
- Host online apprenticeship marketplace for apprenticeship applications
- Run professionalism bootcamp
- Provide on the job coaching support
- Offer single point of contact through CareerWise relationship manager
- Track competency achievement through LMS

NATIONAL, STATE & LOCAL PLAYERS

- Liaise with state agencies to align system incentives and address barriers
- Identify policy changes required
- Partner with BEL Commission
- Provide community readiness framework and application to support geographic expansion
- Operate a community partnership model for interested communities across the state
- Provide tools and resources to other states interested in work







2017

116
ENROLLED APPRENTICES

40
EMPLOYERS

10
TRAINING PLANS

3
COMMUNITIES

5 CHOOL DISTRICTS

8

HIGHER ED

PARTNERS

PARTICIPATING

SCHOOLS

2018

240 ENROLLED APPRENTICES	70 EMPLOYERS
5 PATHWAYS	12 TRAINING PLANS
COMMUNITIES COMMUNITIES	SCHOOL DISTRICTS
25 PARTICIPATING SCHOOLS	HIGHER ED PARTNERS

125+ 450 **EMPLOYERS ENROLLED APPRENTICES PATHWAYS** Adv Mfg, IT, Biz Ops, Financial Services. **OCCUPATIONAL** Healthcare. TRAINING PLANS Education, Culinary Arts **SCHOOL COMMUNITIES DISTRICTS** Front Range, Western Slope. Northern Colo., Eagle Cherry Creek, DPS, Eagle County, County, Estes Park Estes Park, Jeffco, Mesa 51, Poudre, Thompson, Westminster, Weld RE-4 **HIGHER ED PARTNERS PARTICIPATING SCHOOLS**



LEARN MORE www.careerwisecolorado.org

Ryan Gensler
RYAN.GENSLER@CAREERWISECOLORADO.ORG



Webinars

Convenient, online professional development grounded in latest research and innovative practices.



Register Today! IYI.org/webinar

Upcoming Topic:

April 24: Fighting Childhood Obesity – One Child, One School and One Community at a Time



Save the Date! 2019 College & Career Conference

June 5-6, 2019

Register online by **May 29th.** New this year: **One-day options!**

*Sessions will include:

- Graduation Pathways (1/2-day session with Ben Carter)
- Helping Students Pave Their Postsecondary Path with Career Development and Advisement Strategies
- Legislative updates
- Power of the IndianaCareerExplorer.com
- Many workshops on social emotional health
- Self-care workshop with Dr. Gail Gorke!







Get Connected

Let's connect to improve the lives of youth!

Tracy Butler

Director, College and Career Connections tbutler@iyi.org
317-396-2719





