

## COLORADO

Department of Education
Postsecondary and Workforce Readiness (PWR)Endorsed Diploma
Workgroup meeting \#2
March 8, 2018


## COLORADO

Department of Higher Education

## Agenda

- Check in/Networking until 10:00
- Introductions and recap of first meeting
- Presentation of additional data/information requested from first meeting
- Presentation of STEM Endorsement/Review of Biliteracy endorsement materials
- Lunch/Networking with colleagues
- Review of two samples and small group discussions
- How to access other stakeholders' input


## Introductions

- Please state:
- Who you are
- What organization you represent
- Why this topic is important to you


## Recap from last meeting

- Statutory requirements- (Cap4k, SB 17-272)
- Higher education admissions guarantee
- Additional points in the CDE accountability framework
- Link to Graduation Guidelines
- Data presented that indicates probability of credential attainment
- Recommendation to the State Board of Education and the Colorado Commission for Higher Education


## SB 08-212 (Cap 4 K)

(a) TO MEET MINIMUM ACADEMIC QUALIFICATIONS FOR ADMISSION TO, AND TO BE ELIGIBLE, SUBJECT TO ADDITIONAL INSTITUTIONAL REVIEW OF OTHER ADMISSION AND PLACEMENT

QUALIFICATIONS, FOR PLACEMENT INTO CREDIT-BEARING COURSES AT, ALL OPEN, MODIFIED OPEN, OR MODERATELY SELECTIVE PUBLIC INSTITUTIONS OF HIGHER EDUCATION IN COLORADO; AND
(b) TO RECEIVE PRIORITY CONSIDERATION, IN CONJUNCTION WITH ADDITIONAL ADMISSIONS CRITERIA, AND TO BE ELIGIBLE, SUBJECT TO ADDITIONAL INSTITUTIONAL REVIEW OF OTHER ADMISSION AND PLACEMENT QUALIFICATIONS, FOR PLACEMENT INTO CREDIT-BEARING COURSES, AT ALL OTHER PUBLIC INSTITUTIONS OF HIGHER EDUCATION IN COLORADO. THE ADDITIONAL ADMISSIONS CRITERIA SHALL BE DETERMINED BY EACH INSTITUTION OF HIGHER EDUCATION.

## Data from the Colorado Department of Higher Education

## Nichole Torpey-Saboe, CDHE

- Additional data that predicts credential attainment
- What is the predicted probability of retention and completion, based on various predictors of college success?
- High school GPA
- ACT score
- Concurrent enrollment
- HEAR requirements


## Data from the Colorado Department of Higher Education

- Probability of retention for students meeting HEAR requirements

|  | Has taken concurrent enrollment | 2.0 GPA | 2.5 GPA | 3.0 GPA | 3.5 GPA | 4.0 GPA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ACT 15 | 80\% | 88\% | 93\% | 96\% | 98\% |
|  | ACT 20 | 82\% | 90\% | 94\% | 97\% | 98\% |
|  | ACT 25 | 84\% | 91\% | 95\% | 97\% | 99\% |
|  | ACT 30 | 86\% | 92\% | 96\% | 98\% | 99\% |
|  | ACT 35 | 88\% | 93\% | 96\% | 98\% | 99\% |
|  | Has not taken concurrent enrollment | 2.0 GPA | 2.5 GPA | 3.0 GPA | 3.5 GPA | 4.0 GPA |
|  | ACT 15 | 71\% | 82\% | 89\% | 94\% | 97\% |
|  | ACT 20 | 73\% | 84\% | 91\% | 95\% | 97\% |
|  | ACT 25 | 76\% | 86\% | 92\% | 95\% | 98\% |
|  | ACT 30 | 79\% | 87\% | 93\% | 96\% | 98\% |
|  | ACT 35 | 81\% | 89\% | 94\% | 97\% | 98\% |

## Data from the Colorado Department of Higher Education

- Probability of retention for students not meeting HEAR requirements

|  | Has taken concurrent enrollment | 2.0 GPA | 2.5 GPA | 3.0 GPA | 3.5 GPA | 4.0 GPA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ACT 15 | 74\% | 84\% | 91\% | 95\% | 97\% |
|  | ACT 20 | 76\% | 86\% | 92\% | 96\% | 98\% |
|  | ACT 25 | 79\% | 87\% | 93\% | 96\% | 98\% |
|  | ACT 30 | 81\% | 89\% | 94\% | 97\% | 98\% |
|  | ACT 35 | 83\% | 90\% | 95\% | 97\% | 98\% |
|  | Has not taken concurrent enrollment | 2.0 GPA | 2.5 GPA | 3.0 GPA | 3.5 GPA | 4.0 GPA |
|  | ACT 15 | 63\% | 76\% | 86\% | 92\% | 95\% |
|  | ACT 20 | 66\% | 78\% | 87\% | 93\% | 96\% |
|  | ACT 25 | 69\% | 81\% | 89\% | 94\% | 96\% |
|  | ACT 30 | 72\% | 83\% | 90\% | 94\% | 97\% |
|  | ACT 35 | 75\% | 85\% | 91\% | 95\% | 97\% |

## Data from the Colorado Department of Higher Education

- High school GPA is the most powerful predictor of first year retention (approximately 20 percentage point difference between 2.0 and 4.0 GPA).
- Concurrent enrollment and ACT scores are also strong predictors of retention (approximately 10 percentage point difference for taking concurrent enrollment, or moving from ACT of 15 to ACT of 35).
- Meeting the HEAR requirements adds about 5 percentage points to the probability of first year retention after other factors are taken into account (likely a lot of overlap with above factors).


## Data from the Colorado Department of Higher Education

- Probability of completion for students meeting HEAR requirements

|  | Has taken concurrent enrollment | 2.0 GPA | 2.5 GPA | 3.0 GPA | 3.5 GPA | 4.0 GPA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ACT 15 | 14\% | 26\% | 43\% | 62\% | 78\% |
|  | ACT 20 | 16\% | 29\% | 47\% | 66\% | 81\% |
|  | ACT 25 | 18\% | 32\% | 50\% | 69\% | 83\% |
|  | ACT 30 | 20\% | 35\% | 54\% | 72\% | 85\% |
|  | ACT 35 | 22\% | 38\% | 57\% | 74\% | 86\% |
|  | Has not taken concurrent enrollment | 2.0 GPA | 2.5 GPA | 3.0 GPA | 3.5 GPA | 4.0 GPA |
|  | ACT 15 | 14\% | 25\% | 42\% | 62\% | 78\% |
|  | ACT 20 | 15\% | 28\% | 46\% | 65\% | 80\% |
|  | ACT 25 | 17\% | 31\% | 49\% | 68\% | 82\% |
|  | ACT 30 | 19\% | 34\% | 53\% | 71\% | 84\% |
|  | ACT 35 | 21\% | 37\% | 56\% | 74\% | 86\% |

## Data from the Colorado Department of Higher Education

- Probability of completion for students not meeting HEAR requirements

|  | Has taken concurrent enrollment | 2.0 GPA | 2.5 GPA | 3.0 GPA | 3.5 GPA | 4.0 GPA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ACT 15 | 11\% | 21\% | 37\% | 56\% | 73\% |
|  | ACT 20 | 12\% | 24\% | 40\% | 59\% | 76\% |
|  | ACT 25 | 14\% | 26\% | 43\% | 63\% | 78\% |
|  | ACT 30 | 16\% | 29\% | 47\% | 66\% | 81\% |
|  | ACT 35 | 18\% | 32\% | 50\% | 69\% | 83\% |
|  | Has not taken concurrent enrollment | 2.0 GPA | 2.5 GPA | 3.0 GPA | 3.5 GPA | 4.0 GPA |
|  | ACT 15 | 11\% | 21\% | 36\% | 55\% | 73\% |
|  | ACT 20 | 12\% | 23\% | 39\% | 58\% | 75\% |
|  | ACT 25 | 14\% | 25\% | 43\% | 62\% | 78\% |
| $\triangle \text { CDHE }$ | ACT 30 | 15\% | 28\% | 46\% | 65\% | 80\% |
|  | ACT 35 | 17\% | 31\% | 50\% | 68\% | 82\% |

## Data from the Colorado Department of Higher Education

- High school GPA is by far the most powerful predictor of postsecondary completion.
- ACT scores, meeting HEAR requirements, and having taken concurrent enrollment each predict a smaller increase in likelihood of postsecondary completion.
- A combination of all of the above factors yields the highest predicted probability of postsecondary completion.


## Mid-50\% ranges for Colorado public colleges and universities

| Institution | High School GPA <br> Mid-50\% GPA range of admitted students <br> (4.0 scale - includes weighted GPAs) | ACT <br> Mid-50\% ACT range of admitted students (composite scores) | SAT* <br> Taken March 2016 \& After <br> Mid-50\% SAT range of admitted students <br> (Evidenced Based Reading \& Writing + Math) |
| :---: | :---: | :---: | :---: |
| Adams State University | 2.80-3.60 | 17-22 | 950-1140 |
| Colorado Mesa University | 2.70-3.62 | 18-24 | 1010-1180 |
| Colorado School of Mines | 3.74-4.00 | 29-33 | 1340-1470 |
| Colorado State University Fort Collins | 3.31-3.97 | 23-28 | 1130-1310 |
| Colorado State University Global | 2.80-3.60 | 18-23 | 980-1160 |
| Colorado State University Pueblo | 2.92-3.75 | 19-24 | 980-1160 |
| Fort Lewis College | 3.02-3.71 | 19-25 | 1030-1200 |
| Metropolitan State University of Denver | 2.61-3.41 | 18-23 | 1010-1200 |
| University of Colorado Boulder | 3.40-4.00 | 25-31 | 1180-1370 |
| University of Colorado Colorado Springs | 3.14-3.86 | 21-26 | 1090-1280 |
| University of Colorado Denver | 3.20-3.92 | 21-27 | 1090-1280 |
| University of Northern Colorado | 3.00-3.78 | 19-25 | 1050-1240 |
| Western State Colorado University | 2.78-3.64 | 19-25 | 1010-1190 |
|  |  |  |  |

## Merit scholarships

| Selection of | IHE | Scholarship | Amount | Eligibility <br> Requirements | Other Details |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Resident Freshmen | CSU | Colorado Merit Scholarship | \$1000 a year for four years | $\begin{aligned} & 3.6-3.69 \text { GPA } \\ & \text { and 1310-1340 } \\ & \text { SAT } \end{aligned}$ |  |
| Scholarships | CU <br> Boulder | President James H. Baker Award | $\begin{aligned} & \$ 10,000 \\ & \text { total, } \\ & (\$ 2,500 \text { per } \\ & \text { year }) \end{aligned}$ | $\begin{aligned} & 3.8-3.89 \text { GPA } \\ & \text { and } 30 \text { ACT or } \\ & 1370 \text { SAT } \end{aligned}$ |  |
|  | Mesa | Academic <br> Achievement | \$1250 a year <br> for four years | 3.2 GPA and 1120 SAT and top 20\% of class | Meet minimum subject scores |
|  | MSU <br> Denver | RaiseMe Micro Scholarships | \$1000 a year for four years | $3.25 \text { GPA (no }$ <br> test score requirement) |  |
|  | UNC | Bear <br> Scholarship | \$2000 a year for four years | $\begin{aligned} & 3.0 \text { GPA and } \\ & 1020 \text { SAT } \end{aligned}$ |  |
|  | WSCU | Advantage <br> Award | \$2000 a year for four years | 3.0-3.49 GPA and 1110-1120 SAT |  |

## Data from the Colorado Department of Higher Education

- Table 1 - College-Ready Assessments and Cut Scores from the state Developmental Education Policy

| $\begin{array}{c}\text { English Comp I (GT-CO1): } \\ \text { Introductory Writing) } \\ \text { Cut Score* }\end{array}$ | CTE \& Quantitative Reasoning |
| :--- | :---: | :---: | :---: |
| Math Cut Score* |  |$]$

## ACCUPLACER cut scores for placement into college-level coursework

|  |  |  | UPLACER | - English |
| :---: | :---: | :---: | :---: | :---: |
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## ACCUPLACER - Math

| Institution | Elementary <br> Algebra | College Placement |
| :--- | :--- | :--- |
| Colorado Mountain College - <br> Placement Testing Reference | 61 | MAT 108 Technical Math <br> MAT 120 Math for Liberal Arts <br> Mat 135 Introto Statistics <br> MAT 155 Integrated MATH |
| MAT121: College Algebra |  |  |

## Postsecondary Readiness = Workforce Readiness

| Source | College Ready | Career Ready |
| :---: | :---: | :---: |
| Is College Readiness the Same as Career Readiness? <br> - Carol Gerwin, Jobs for the Future <br> - David Conley, Policy Analyst University of Oregon, Consultant | College readiness and career readiness require many--but not all--of the same skills. <br> Both are essential for equity. <br> It is critical to rely on multiple measures, in order to provide a better gauge of both college and career readiness |  |
|  | College Readiness: the ability to succeed in entrylevel general-education coursework and move into a program of study or a cademic major | Career Readiness, the ability not just to enter into but to adva nce through a career over time. - requires most of the same foundational a ca demic knowledge a nd learning skills as college readiness, AND requires program-specific foundational knowledge. <br> The reality of today's economy is that ... jobs that used to require no more than a high school diploma now require postsecondary education that leads, at least, to a certificate. |

## Postsecondary Readiness = Workforce Readiness

| Soure | lege Ready | Career Ready |
| :---: | :---: | :---: |
| Redefining Ready! <br> $\begin{array}{l}\text { School Superintendents Association } \\ \text { httpsp//wwwredefiningready org/ }\end{array}$ |  |  |
|  | cademic Indicators GPA 2.8 out of 4.0 and one or more of the | cesecumer |
|  |  |  |
|  |  | Sunem |
|  | Additional Factors $=>$ college success - Earning $\mathrm{As}, \mathrm{Bs}, \mathrm{Cs}$ |  |
|  |  |  |
|  |  |  |

## Meet minimum local graduation requirements at a high level of proficiency

Successfully complete a coherent sequence of at least 4 STEM courses as determined at the local level, with a 3.5 GPA or higher, which courses are in addition to the minimum local requirements

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Demonstrate proficiency in mathematics by

- 28 (+) on ACT (math portion)
- $600(+)$ on SAT
- 5 (+) on IB
- 4 (+) on AP Mathematics
- 100 (+) on Accuplacer
- 85 (+) on the Armed Services Vocational Aptitude Battery Test

Successfully complete a final capstone project. To successfully complete a final capstone project, the student must achieve a high proficiency level of mastery, as set
by the LEA, for each of the competencies

## -INQUIRY-BASED LEARNING, WHICH IS DEMONSTRATED THROUGH THE CAPSTONE PROJECT BY ASKING QUESTIONS AND DEFINING PROBLEMS <br> - CREATIVE PROBLEM-SOLVING, WHICH IS DEMONSTRATED THROUGH THE CAPSTONE PROJECT BY DEVELOPING AND APPLYING SCIENTIFIC AND MATHEMATICAL MODELS TO EXPLAIN COMPLEX IDEAS AND SOLUTIONS <br> -EXPERIMENTATION, WHICH IS DEMONSTRATED THROUGH THE CAPSTONE PROJECT BY PLANNING AND CARRYING OUT INVESTIGATIONS <br> -CRITICAL THINKING, WHICH IS DEMONSTRATED THROUGH THE CAPSTONE PROJECT BY ANALYZING AND INTERPRETING DATA AND COMMUNICATING CONCLUSIONS <br> -DEDUCTIVE AND INDUCTIVE REASONING, WHICH IS DEMONSTRATED THROUGH THE CAPSTONE PROJECT BY USING MATHEMATICS AND COMPUTATIONAL THINKING; <br> -UNDERSTANDING OF ENGINEERING PRINCIPLES, WHICH IS DEMONSTRATED THROUGH THE CAPSTONE PROJECT BY CONSTRUCTING EXPLANATIONS AND DESIGNING SOLUTIONS <br> -EFFECTIVE COMMUNICATION SKILLS, WHICH ARE DEMONSTRATED THROUGH THE CAPSTONE PROJECT BY ENGAGING IN ARGUMENT FROM EVIDENCE

## Biliteracy Endorsement

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## DIPLOMA ENDORSEMENT FOR BILITERACY

Minimum Requirements


According to 58 17-123 an LEA may grant a diploma endorsement of biliteracy to a groduating high schoof student who attains proficiency or higher in one or more world languoges in oddition to ottoining proficiency or higher in Englash. To obtain a diploma endorsement for biliterocy, a graduating student must:

Demonstrate proficiency or higher
in English by


Completing at of the English Language Arts (ELA) course work required for graduation with an overall grade point average of at least 3.0 in the required TLA courses AND
one of the cesuifements listed below:
"storing:
 comporaman whe AP Enclihh Utrrature and comporaion Eam



AND
Demonstrate proficiency or higher in a World Language by


Completing the World language (W) portion of the diploma endorsement for bilteracy a student must complete one of the requirements listed below:


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Ahcievinc a posine were on nationuly reccenited test.




http://www.cde.state.co.us/cde english/diploma endorsemenforbiliteracyminimumrequirements

## Biliteracy Endorsement

COLORADO DEPARTMENT OF EDUCATION

## DIPLOMA ENDORSEMENT FOR BILITERACY

Body of Evidence Criteria

Senate Bill 17-123 established requirements by which high school students may earn a diploma endorsement in biliteracy if they demonstrate proficiency in English and at least one World Language. The law allows for students to demonstrate proficiency through a body of evidence for districts and schools that do not have Advanced Placement or International Baccalaureate programs or district developed exams available for students to demonstrate proficiency. The law required the Colorado Department of Education to establish criteria for a body of evidence that students may use to demonstrate proficiency.

## District Body of Evidence Criteria

For districts that do not have an Advanced Placement, International Baccalaureate or local assessment available, a district may use a body of evidence (BOE) criteria to meet the qualifications for the Diploma Endorsement for Biliteracy The district criteria for a body of evidence MUST:

- Demonstrate proficiency in all domains of the language through: reading, writing, speaking and listening.
- Be comparable in rigor to an Advanced Placement Test.
- Be submitted to the CDE to be posted on the CDE website for the Diploma Endorsement for Biliteracy.

Districts also may consider district criteria for the body of evidence to include:

- Multiple modes of assessment to complete BOE - interpersonal, written text, assessment, presentation
- Student's proficiency in demonstrating social and academic language
- Using language in a real-world setting through community service
- Language Portfolios

Where can I learn more?

- Lulu Buck, buck l@cde.state.co.us

CDHE

## Biliteracy Endorsement

## COLORADO DEPARTMENT OF EDUCATION

DIPLOMA ENDORSEMENT FOR BILITERACY
Assessment Griteria

Senate Bill 17-123 established requirements by which high school students may earn a diploma endorsement in biliteracy if they demonstrate proficiency in English and at least one World Language. The law required the Colorado Department of Education to establish assessment criteria for students to demonstrate proficiency. In addition to the option of using either Advanced Placement or International Baccalaureate World Language assessments, local education agencies may create an assessment for students to demonstrate proficiency. LEA developed assessment must meet these criteria.

## The Assessment MUST:

- Be comparable in rigor to an Advanced Placement Test.
- Require the student to pass the test at the proficient level or higher
- Have a standardized process across a school or grade level.
- Assess all domains of the language through: reading, writing, speaking and listening
- 50\% must assess literacy - reading and writing
- $\mathbf{5 0 \%}$ must assess oral language - speaking and listening

Districts may consider the following format for meeting the assessment requirements:

Sample Exam Format
Section I-Multiple Choice - 65 Questions | 1 Hour, 30 Minutes | $50 \%$ of Exam Score

- Part A - $\mathbf{3 0}$ questions; $\mathbf{4 0}$ minutes
- Interpretive Communication: Printed Texts
- Part B- $\mathbf{3 0}$ questions, 50 minutes
- Interpretive Communication: Print and Audio Texts (combined)
- Interpretive Communication: Audio Texts


## Section II - Free Response - 4 Tasks | 1 Hour, 20 Minutes | 50\% of Exam Score

- Part A - Written Tasks; 60 minutes
- Interpersonal Writing: Email response (1 prompt; 15 minutes)
- Presentational Writing: Persuasive essay ( 1 prompt, $\sim 55$ minutes total: 15 minutes to review materials Presentational Writing: Per
plus 40 minutes to write)
- Part B - Spoken Responses; 20 minutes
- Interpersonal Speaking: Conversation ( 5 prompts; 20 seconds for each response)
- Presentational Speaking: Cultural evaluation (1 prompt; 4 minutes to prepare, 2 minutes to respond)


## Lunch

- Please take 30 minutes to refresh, nourish, and connect with colleagues.


## Two sample criteria for a PWR Endorsed Diploma

- Both derive from discussions in meeting \#1
- Include scores on traditional measures that meet benchmarks set by testing agencies, postsecondary educational readiness standards, and/or data the predicts postsecondary success
- Sample \#1- Includes "buckets"
- Sample \#2- No buckets


## Two sample criteria for a PWR Endorsed Diploma

## Questions to consider

- Tracking?
- What to do about scores that are the same for both GG and PWR endorsement?
- Should concurrent enrollment include a grade requirement?
- Are all options equitable for all Colorado districts?
- Need for additional subject areas?
- Need for additional measures?
- Need for additional criteria?
" Can any of the measures be "district determined?"
- Can any additional criteria be "district determined?"


## Small group discussions

- Please review the two samples and determine:
- Does either meet our needs? If so, which one and why?
- Similarly, which do you prefer and why?
- Attempt to answer the following questions:
- Tracking?
- What to do about scores that are the same for both GG and PWR endorsement?
- Should concurrent enrollment include a grade requirement?
- Are all options equitable for all Colorado districts?
- Need for additional subject areas?
- Need for additional measures?
- Need for additional criteria?
- Can any of the measures be "district determined?"
- Can any additional criteria be "district determined?"


## Small group discussions

- How do we have others review our work and make meaning of it?
- Who are our stakeholders?
- What questions would we want to ask them to get the most meaningful feedback?


## THANK YOU SO MUCH!

HAVE A GREAT MARCH, AND WE WILL SEE YOU IN APRIL!
APRIL 19, 10:00-2:00- LOWRY CONFERENCE CENTER
 ANDY, ROBIN, AND CARL

