



EMPOWERING STUDENTS THROUGH BETTER PLACEMENT

MULTIPLE MEASURES IN THE COLORADO COMMUNITY COLLEGE SYSTEM

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AGAINST A BACKDROP OF VARIOUS REFORMS

- **DEVELOPMENTAL EDUCATION REDESIGN:**

- MAJOR OVERHAUL OF OFFERINGS 2013-15
- MOST STUDENTS HAVE ONE SEMESTER OF DEV ED COURSEWORK
- STAND ALONE, CO-REQ, SUPPORT LABS
- MINIMUM 1 CREDIT MATH 09X
- MAXIMUM 6 CREDIT CCR 092 + 091

- **MATH PATHWAYS:**

- MOVING AWAY FROM ALGEBRA
- STEM V. NON-STEM PATHS
- INCORPORATING DEV ED MATHS
- ADVISING CHALLENGES

MULTIPLE MEASURES TASKFORCE

- MEMBERS FROM 13 COMMUNITY COLLEGES (120,000 STUDENTS, 17% in D.E.)
- FACULTY IN ENGLISH, CCR, MATH
- DISCIPLINE CHAIRS
- TESTING STAFF
- ADVISORS
- REGISTRARS
- ADMINISTRATORS

MULTIPLE MEASURES TASKFORCE

- FORMED IN NOVEMBER 2017
- CREATE A WORKABLE MULTIPLE MEASURES PLACEMENT PROCESS
- APPLY FOR EXTERNAL FUNDING TO STUDY EFFICACY OF PROCESS
- WORK OUT THE KINKS BEFORE SCALING UP

WHAT PROBLEM(S) DID WE HOPE TO SOLVE?

- FRUSTRATIONS WITH OLD ACCUPLACER
- NEXT GEN ACCUPLACER NOT IN PLACE AT TIME
- FAILED RELATIONSHIP WITH ANOTHER TEST (CCCPT – McCANN PRODUCT)
- RESEARCH SHOWING HSGPA AS “MORE ACCURATE” MEASURE FOR PLACEMENT
- MULTIPLE MEASURES MOVEMENT
- LACK OF STANDARDIZED PROCESS FOR PLACEMENT ACROSS SYSTEM

WHAT THE HECK ARE MULTIPLE MEASURES?

“A growing body of evidence indicates that standardized placement tests tend to underestimate students’ likelihood of succeeding in college-level coursework, leading to students being misplaced in developmental coursework, slowing their academic progress and increasing their likelihood of dropping out of college. Multiple measures means that colleges incorporate two more more criteria for assessment and placement. Under a multiple measures approach, standardized testing is no longer the primary means of assessing if a student is prepared for college-level coursework”

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<https://assessment.cccco.edu/what-are-multiple-measures>

EXAMPLES OF MULTIPLE MEASURES

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- High school or college transcripts
- Highest level of coursework completed in a subject area and corresponding course grade
- Attitude surveys
- Vocational or career aptitude interest inventories
- Specialized certificates or licenses
- Education and employment histories
- Military training and experience
- Interviews
- Holistic scoring processes

READINESS INDICATORS VARY ACROSS CCCS (CNCC EXAMPLES BEYOND TEST SCORES)

- High school graduates who have completed Algebra II, Geometry or Pre-Calculus in high school within 18 months prior to enrollment with at least a B grade in that class and have a 3.0 unweighted cumulative GPA are exempt from assessment in math.
- High school graduates who have completed a Junior year English Class in high school within two years prior to enrollment with at least a B grade in that class and have a 3.0 unweighted cumulative GPA are exempt from assessment in English.

MANDATORY ASSESSMENT VS. MANDATORY PLACEMENT

- “KING BILL” PROVIDES STUDENTS MECHANISM TO OPT OUT OF PLACEMENT, PARTICULARLY IN DEV ED
- MOST SCHOOLS IN CCCS PROVIDE MANDATORY ASSESSMENT BUT...
- MOST DON'T ADVERTISE THE WAIVER OPTION
- IF ANY OF THE READINESS INDICATORS ARE MET, STUDENTS MAY NOT BE REQUIRED TO UNDERGO FURTHER ASSESSMENT

GRAVITATING TOWARDS GUIDED SELF-PLACEMENT

- NON-COGNITIVE QUESTIONS
- GRIT INDICATORS
- INSPIRATION FROM VARIOUS SOURCES
- MATH (DEV ED AND COLLEGE LEVEL) FACULTY
 - CONTENT QUESTIONS MORE IMPORTANT
 - MATH PATHWAYS FACTOR IN PROCESS
- ENG/CCR FACULTY DEVELOPED ENGLISH SURVEY

SIX SURVEYS TAKE SHAPE

- ALGEBRA SURVEY MAT 121
 - GRADUATED HS MORE THAN 5 YEARS AGO
- ALGEBRA SURVEY MAT 121
 - HS GRAD WITHIN 5 YRS
- COLLEGE-LEVEL, TRANSFER MATH NOT MAT 121
 - GRADUATED HS MORE THAN 5 YEARS AGO
- COLLEGE-LEVEL, TRANSFER MATH NOT MAT 121
 - HS GRAD WITHIN 5 YRS
- ENGLISH SURVEY ENG 121
 - GRADUATED HS MORE THAN 5 YEARS AGO
- ENGLISH SURVEY ENG 121
 - HS GRAD WITHIN 5 YEARS

WHAT ARE WE DOING WITH THE SURVEYS?

- 3 SCHOOLS IN PILOT STUDY
 - ARAPAHOE COMMUNITY COLLEGE (16,000)
 - COMMUNITY COLLEGE OF AURORA (11,000)
 - COLORADO NORTHWESTERN COMMUNITY COLLEGE (1700)
- NOT USED FOR PLACEMENT YET
- ALL INCOMING STUDENTS AT ACC, CCA, CNCC ARE TAKING BOTH SURVEY AND ACCUPLACER
- RUTGERS WILL PROVIDE DATA ON SURVEY RESULTS AND WHERE STUDENTS LANDED

WHAT'S NEXT? IES AND RCT

- SECOND ROUND OF IES GRANT APPLICATION
 - SIMPLIFY PROCESS (6 SURVEYS!)
 - MUST BE DIFFERENT FROM ACCUPLACER
- THIS FALL, ELIGIBLE AND CONSENTING STUDENTS WILL BE RANDOMIZED
 - HALF WILL BE TREATMENT GROUP
 - HALF WILL BE CONTROL GROUP
- CHALLENGES OF IMPLEMENTATION
 - NUMBERS GAME
 - TESTING AND LOGISTICS
 - WHEN, WHERE, WHO GETS DATA?
 - METHOD OF PLACEMENT HIDDEN FROM VARIOUS EYES

MULTIPLE MEASURES OR CHOOSE YOUR OWN ADVENTURE?

- INTENTION IS TO GIVE STUDENTS INFORMATION TO MAKE INFORMED CHOICE
- WE ARE NOT USING TRUE MULTIPLE MEASURES IF WE ARE SIMPLY GIVING MULTIPLE EXIT POINTS
- MULTIPLE SINGLE MEASURES (GOUDAS, ET AL.)
- IDEAL WOULD BE A MATRIX, HOLISTIC ASSESSMENT

SHOUTING DOWN OUR BETTER ANGELS?

- NEW POSSIBLE CHALLENGE IS A BILL PROPOSED BY CDHE
- ORIGINAL VERSION CAUSED CONSTERNATION
- LATEST VERSION: 10% MAXIMUM DIRECT PLACEMENT IN STAND ALONE DEV ED COURSES BY 2025
- COLORADO SEEMS POISED TO ACCELERATE ITS MOVE TO CO-REQ MODEL