MULTIPLE MEASURES

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WHAT ARE MULTIPLE MEASURES?

- Measurements beyond standardized tests to place students into gateway (college-level) coursework
 - HSGPA
 - Placement exam (ACT or Accuplacer)
- At NCMC, English, math, and reading scores, along with HSGPA, are used to place students into math, English, science, and government/history courses.



MULTIPLE MEASURES INITIATIVE

- HB1042 directed all public institutions of higher education to replicate best practices in remediation
- Passed in 2012, expected to be in place by 2015-2016
- "Principles of Best Practice in Remedial Education" Executive Summary
 - Common scores/multiple measures to place students into credit-bearing courses
 - Encourage State Board of Education to adopt CBHE recommended college prep high school core curriculum
 - Implement accelerated remedial education models
 - Develop and implement early intervention strategies
 - Develop and implement threshold policies and practices

WHY THE PUSH FOR MULTIPLE MEASURES?

- Provides a more accurate measurement of a student's ability to succeed in collegelevel coursework
- Relying on only one measurement (such as ACT scores) results in students being placed unnecessarily into remedial coursework
- In public, 2-year institutions in MO, for every 100 students beginning college (first time, full-time):
 - 51 are enrolled in math remediation
 - 39 fail to complete the associated gateway course
 - 32 are enrolled in English remediation
 - 26 fail to complete the gateway
- Placement into remedial classes can be a barrier to completion!

MULTIPLE MEASURES IN HIGHER EDUCATION

- 2016 survey found:
 - 57% of two-year institutions used multiple measures for math placement (compared to 27% in 2011)
 - 51% for reading/writing (compared to 19% in 2011)
- Increasing the number of students who complete their gateway math and English courses within their first year improves the students' chances of graduating
 - Using multiple measures allows for more students to be placed into corequisite or gateway in their first semester
- Complete College America initiative
 - Math Pathways
 - Corequisite Support
 - 15-to-Finish
 - Momentum Year



NORTH CENTRAL MISSOURI COLLEGE MULTIPLE MEASURES IMPLEMENTATION

- Began using multiple measures for placement for spring 2017 enrollment (fall 2016 advisement)
- Combined EN101 and DS025 to create EN101W English I with Workshop (corequisite)
- Eliminated many math DS sections to encourage enrollment in math workshops (corequisite)
- Advise all first time, full-time students into EN101 and math pathway in their first semester



CURRENT STATUS

- Successes
 - Many students entering gateway course or Workshop in first semester
 - Keeps students on track for graduation
 - Eliminates potentially several credit hours of DS coursework
 - Self-confidence of students
- Challenges:
 - Implemented math pathways, corequisites, and multiple measures at the same time
 - Students with no HSGPA (homeschool, GED, International)
 - Manual process (test waivers, system wouldn't recognize HSGPA and test scores as a prerequisite)



ON THE RIGHT TRACK

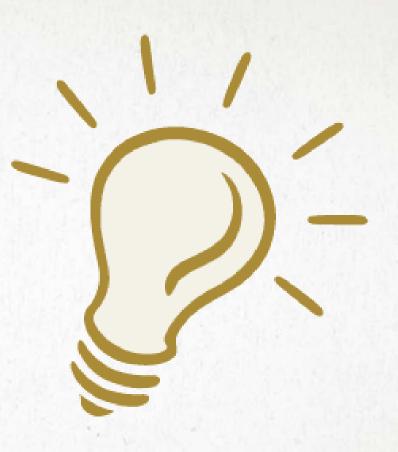
- 73% -- 3-year average success rate of NCMC non-remedial students successfully complete their gateway course
- 73% -- 3-year average success rate for NCMC remedial students
- 65% -- 3-year average success rate for NCMC remedial students passing the DS course and the gateway course
- In the past year, initial signs are positive!
 - Students are completing their gateway course <u>much quicker</u> with a success rate of 60%
 - Will take more time to fully track these students all the way through to graduation

MULTIPLE MEASURES AND POWERCAMPUS

- GPA is not an option for prerequisite in PowerCampus
 - BUT Both measures are stored data in Powercampus
 - Test scores is in TESTSCORES
 - High school GPA is in EDUCATION
 - Institution type is in EDUCATION
 - Exceptions
 - Test date is less than 3 years
 - Test date is not greater than today (human error)
 - Missing transcript date (official transcript not received)
 - HSGPA from 7th or 8th semester (18 months of HS graduation)
 - Missing Institution Type

SOLUTION

- Create TEST_ID and TEST_TYPE for Multiple Measure Waiver types
- SQL Job
 - Insert Multiple Measure Waiver in TESTSCORES
- Modify course prerequisites to identify the appropriate waiver



NEXT STEPS

- Create predictive models using data
 - Assist instructors with scheduling courses
 - Allow us to be proactive in advising students to seek out tutoring or other assistance
- Explore the relative weight of the different variables/measures
 - Do test scores play more into the student's success? Or HSGPA?
- Share information with high schools for possible college prep enhancements

QUESTIONS?

