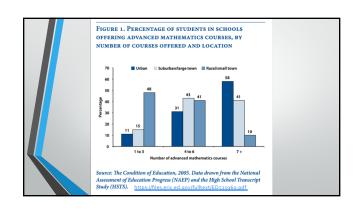
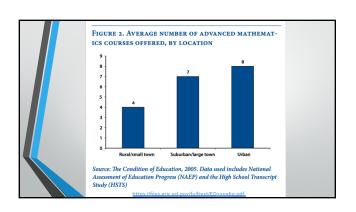
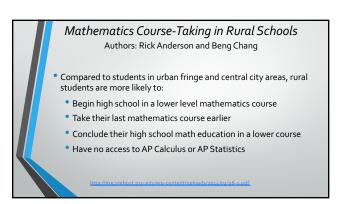


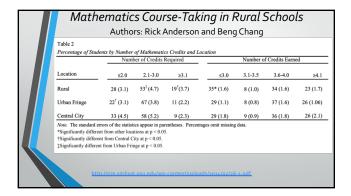


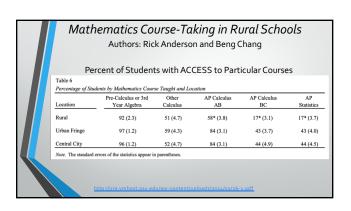
Carsey Institute Brief Students in Rural Schools Have Limited Access to Advanced Mathematics Courses Author: Suzanne E. Graham • Students living in rural areas and small towns have less access to higher-level math courses than students in suburban and urban areas. • One in five public school students nationwide attend rural schools. • Almost 50% of students in rural areas and small towns attend schools with only one to three advanced math courses (courses beyond Algebra I, Geometry, and Algebra II).

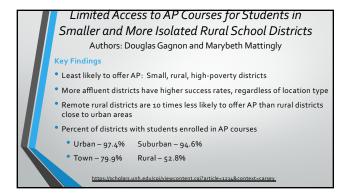


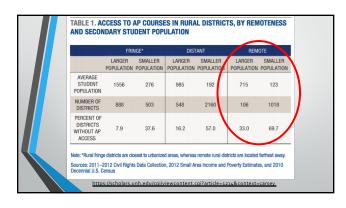


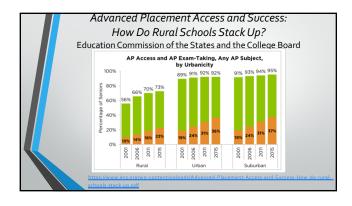


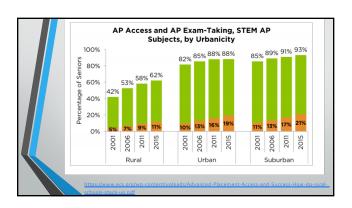


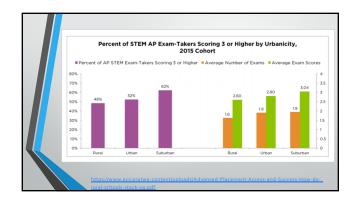














Scotland County R-1 Demographics Located in Northeast Missouri Approximately 4,900 residents in the entire county Only school district in the county Approximately 630 students pre-k through 12th grade Around 160 students in grades 9 - 12 52.4% of students qualify for free or

Math Course Offerings Prior to 2013

- Mainly Algebra I, Geometry, Algebra II, Precalculus of some kind
- Occasionally offered dual credit College Algebra when a qualified teacher was on staff
- Some students took College Algebra online or via ITV (Interactive Television)
- Occasionally offered a Math Applications or Business Math course
- No Advanced Placement courses were offered
- Algebra I taken in 8th grade counted as one of the three required high school math credits

Observations & Challenges at SCR-1

• Only 2 math teachers for grades 9-12

reduced lunch

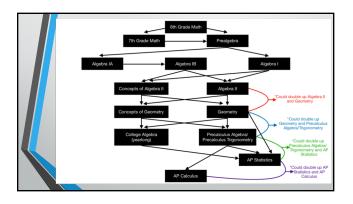
Graduating class size: 30-45 students

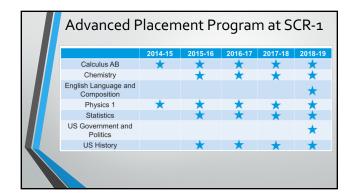
- Many students cannot afford the costs of dual credit courses and AP exams
- Options for senior year depended on whether or not a student could afford dual credit courses
- Students taking online dual credit courses often used their own laptops and had internet access at home
- Students seemed to avoid online dual credit math courses
- Results of math placement test in 6th grade often set students on a particular pathway with few options

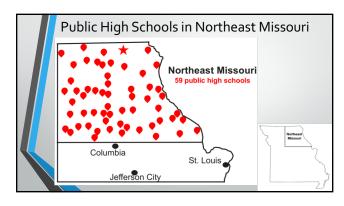
Strategies to Increase Equity and Access to AP and Dual Credit Math Courses

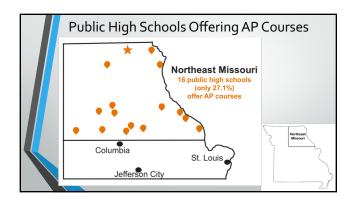
- New course offerings with flexibility and revamped curriculum
- Advanced Placement Program
- Learning lab for students taking online dual credit courses
- Annual AP and Dual Credit Informational Meeting
- Dual credit scholarships
- Fundraising to pay for AP exams
- Conferencing with students annually about math course options

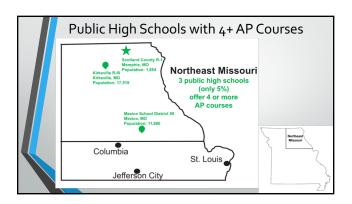
Current Math Course Offerings Algebra IA Algebra IB Algebra I Concepts of Geometry Geometry AP Statistics (dual credit) AP Calculus (dual credit) Algebra II Students are now required to take 3 math credits during grades 9-12*











Learning Lab

- Computer lab supervised by a certified teacher
- Utilized for students taking foreign language courses through Rosetta Stone and students taking online dual credit courses
- Implemented for the 2015-16 academic year
- As a result, ITV classroom was removed for the 2017-18 academic year
- Gives ALL students computer/internet access to take an online dual credit course and time to complete assignments

AP and Dual Credit Informational Meeting

- First implemented in 2014-15 academic year
- Developed to make sure ALL students learn about dual credit and AP opportunities
- Held annually in March or April
- Parents and students in grades 9 11 invited to learn about dual credit and AP options
- Presentation about math dual credit and AP options taught onsite and about online dual credit options through three different colleges/universities

Dual Credit Scholarships

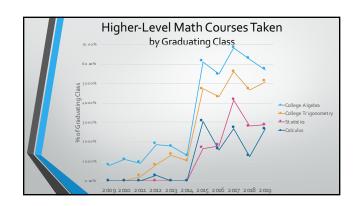
- Need-based scholarships
 - Approached businesses and organizations offering scholarships for graduating seniors
 - Approached some individuals who donate to the school regularly
 - Worked with the SCR-1 School Foundation
- General scholarships
 - School Foundation: donations designated for dual credit scholarships can be made with or without restrictions
 - After Prom: offered as prizes
- Supportive Community Members
 - Help pay dual credit fees for students with special circumstances

Covering the Costs of the AP Exams

- Goal to cover the cost of every AP exam
 - Donations
 - Fundraising: engaging students, parents, and the community
 - *Set up and work the concession stand at sporting events
 - *Bandanas and tutus for Homecoming and Courtwarming
 - Booth at craft fair
 - •Raffle
 - •Meal before athletic events
 - •Car wash
 - •Tip night

Conferencing with Students

- Math teachers meet one-on-one with each student each year in the spring
- Discuss each student's goals and post-secondary plans
- Discuss options for math courses the next academic year
- Discuss whether or not the student would need to double up in order to get to certain math courses
- Teacher provides recommendations to each student and to the guidance counselor
- Certain dual credit courses require a qualifying placement score (ACT or Accuplacer)
- Guidance counselor also discusses course scheduling with each student
- Student and parent(s) make final decision



Questions?

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