Secondary/Postsecondary Partnerships That Open Doors to College

Thanks for joining us! We will begin promptly at 3:00 p.m. ET.

- Use the “Chat” area for group interaction. Tell us where you are from!
- Submit questions to Q/A as they arise
- This webinar will be archived at NROC.org and you will receive a follow-up email with a link to the recording and slides.
- Contribute to the Twitter conversation at #NROCpd.
- For closed captions, click on the Live Transcript (CC) button.
- Do you need help with Zoom? Email memberservices@NROC.org.
NROC collaborates with educators to imagine, develop, test, & refine technologies that improve student success.
Secondary/Postsecondary Partnerships That Open Doors to College

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TRIO Educational Talent Search

→ A pre-college program aiming to improve the **academic strengths, college readiness, and career preparedness** of students in grades 6-12

→ A federally-funded program, founded in 1965 as part of the Economic Opportunity Act, Higher Education Act, and War on Poverty. It is one of the first three TRIO programs, which also include: **Upward Bound** and **Student Support Services (SSS)**. Thus, the name TRIO.

→ A program designed to **increase** the number of underrepresented youth who:
  ◆ Graduate from high school,
  ◆ Enroll in post-secondary education, and
  ◆ Find meaningful employment, earning a livable wage.
 WHY is TRIO special?

Long-Term Support

“Once in TRIO, always in TRIO”: Once a student enrolls in TRIO ETS (as early as 6th grade), they have our support until the Fall after they graduate High School.

Relevant Student Services

We adapt to our students’ needs and adjust our services to allow for the least amount of hurdles towards their personal success.

Nationwide Community and Connection

Our TRIO Family stretches across the United States, creating a network that has been close-knit since the late 1960s. TRIO has many other programs, such as TRIO Student Support Services and the McNair Scholars’ Program, that serve students during college.
In 2019, 179 Talent Search graduates pursued their post-high school goals at 42 colleges and universities across the United States! Explore these maps to find out more about the Class of 2019's college choices.

¡En 2019, 179 graduados de Talent Search persiguieron sus objetivos después de la secundaria en 42 colegios y universidades de los Estados Unidos! Explore estos mapas para obtener más información sobre las selecciones universitarias de la Clase de 2019.

Total Seniors / Alumnos de 12º grado: 220
College Bound / Alumnos universitarios: 179 (82%)  
A-G Curriculum / Curriculum A-G: 87 (40%)
Deferred Enrollment / Inscripción diferida: 10
Spring Program Based on EdReady

Funding Sources

➢ CSU Office of External Relations
➢ HSU Talent Search & GEAR UP
➢ HSU Future Math and Science Initiative (MSTI)
➢ HSU Educational Opportunities Program (EOP)
➢ Blue Lake Rancheria’s Pathmakers Program
➢ Humboldt County Office of Education
➢ Del Norte County Office of Education

Goals & Partnerships

➢ Summer school credit
➢ Progress towards graduation
➢ Remediate learning loss
➢ Math enrichment
➢ Make math fun!

“I have taught many summer school sessions over my career, and this was by far the best one.”

-Tat Lam, Math Instructor
Two Cohorts & Student Eligibility

CSU SAI Green Cohort

- Math Eligibility - 3.0 with C in math class is the lowest acceptable
- Grade Eligibility - rising 8th-rising 12th grade

Humboldt SAI Gold Cohort

- Math Eligibility - GPA lower than 3.0 with any math grade acceptable
- Grade Eligibility - rising 7th-rising college (going into 1st semester)
The Why!? Summer Algebra Institute (SAI)

Commitment to Eliminate Achievement Gaps in Math & Science!

❖ Improving access and addressing equity gaps to ensure that all students have an opportunity to earn a college degree regardless of their ethnicity, financial circumstance or status.

❖ Targeting of underrepresented youth/BIPOC community.

❖ CSU’s Graduation Initiative 2025 aims to help more of these students earn degrees.

❖ Cal Poly Humboldt & TRIO Talent Search’s Commitment to the local service area (Humboldt, Del Norte, Mendocino)
SAI Implementation Overview

Program Objectives

**Mathematics:** Students used EdReady to continue developing their math skills in preparation for high school and college.

**STEAM:** Participants explored activities that supplement classroom instruction and reinforce the real-life application of mathematics. STEAM hands-on activities included: robotics, coding, indigenous basket design, geometric arts, etc.

*The Culturally Relevant STEAM Curriculum:* To create a sense of belonging in STEAM majors and professional fields for those in BIPOC communities, students engaged in recognizing achievement by diverse groups to STEAM areas.

**College Knowledge Activities:** Students enrolled in this summer program received college-and-career-readiness workshops.
QUESTIONS?
Ivy Tech’s Vision and Commitment

Office of K-14 Mission: Prepare students for post-secondary success by providing transformational academic opportunities through Indiana’s largest dual credit program.

Vision: In statewide partnership with K-12 schools, every high school student will aspire to earn a credential to attain individual college, career, and life goals.

Values:
- Student centered
- Provide value to parents and students
- Open access
- Provide choices for our students, allowing them to grow
- Operate with excellence
What is LevelUp?

- Readiness platform for 8th-12th grade students
- Indiana ELA and Math standard specific
- Free to all Indiana students provided by Ivy Tech
- Free SAT preparation
- Can be used for remediation or as an instructional support tool
- Teachers can use reports to identify knowledge gaps or topics that may require additional instruction
- Extended data retention
- Link to LevelUp info page: https://www.ivytech.edu/35549.html
LevelUp Subject Areas

**MATHEMATICS**

- Basic Algebra Prep
  - Whole Numbers
  - Fractions, Mixed Numbers, Decimals
  - Ratios, Rates, Proportions
  - Percents
  - Measurement
  - Real Numbers
  - Solving Equations
  - Formulas
  - Exponents
  - Polynomials
  - Graphing
  - Roots
  - Statistics

- Algebra 1
  - Solving Linear Equations
  - Functions and Patterns
  - Analyze and Graph Linear Equations, Functions and Relations
  - Analyze, Solve, and Graph Linear Inequalities
  - Systems of Linear Equations and Inequalities
  - Radical Expressions
  - Factoring
  - Quadratics
  - Rational Expressions and Equations
  - Extensions and Applications

- Algebra 2
  - Statistics
  - Solving Equations
  - Factoring
  - Graphing
  - Solving Systems of Equations
  - Rational Expressions
  - Radical Expressions
  - Functions
  - Exponential and Logarithmic Functions

IVY TECH
COMMUNITY COLLEGE
LevelUp Subject Areas

- **Geometry**
  - Geometry Basics
  - Real Numbers
  - Solving Equations & Inequalities
  - Exponents and Polynomials
  - Factoring
  - Graphing
  - Solving Systems of Equations

- **Precalculus & Trigonometry**
  - Ratios, Rates, Proportions
  - Percents
  - Statistics
  - Real Numbers
  - Solving Equations
  - Exponents and Polynomials
  - Factoring
  - Graphing
  - Solving Systems of Equations
  - Rational Expressions
  - Radical Expressions
  - Functions
  - Exponential and Logarithmic Functions
  - Trigonometry

**READING & LANGUAGE ARTS**

- Topics include: Intro to College Reading and Writing, Identifying Main Ideas, Discovering Implied Meaning, Interpreting Bias, Analysis through Definition, Learning Across Disciplines, Exploring Comparative Elements, Informing Opinions through Causal Chains, Implied Critical Analysis, Using Sources in Critical Reading and Writing
- Reading and Language Arts Freshman and Sophomore
- Reading and Language Arts Junior and Senior
- Readiness for College English
- Prepare for SAT English
LevelUp Current State

• More than 20 school systems have adopted
• More than 3,000 students are working in LevelUp/EdReady.
• Using the platform in a variety of ways (course preview or remediation, course supplemental tool, lab setting, summer bridge, SAT prep, pre- or post-semester assessment)
• Ivy Tech creates private goal key for the school
• Also provides onboarding for site admins and ongoing support
Measuring the Impact

Early Feedback

• Positive feedback from teachers and students
• Schools appreciate ability to use the tool to fit their needs
• Several schools are using LevelUp/EdReady with students to increase their state standardized test score
  ○ One school reported that 89% of students working in EdReady increased their scores.
  ○ Some students increased their score by as much as 10%.

Challenges

• Identifying the best way to gather and analyze data
• Formalizing process for supporting diverse schools using EdReady in a variety of ways
QUESTIONS?
Maryland Mathematics Reform

- Statewide Math Partnership between the 16 Community Colleges and the 12 four-year schools in the University System of Maryland.

- College and Career Readiness & College Completion Act (SB-740)
  - Reduce the number of students taking developmental mathematics.
  - Increase the percentage of students completing BOTH developmental math and a general education math course in their first year of college.

- Decade of Statewide Developmental Mathematics Initiatives
  - Alternate Placement & Mathematics Pathways
    - **Statistics Pathway:** Liberal Arts and degrees requiring Statistics
    - **College Algebra Pathway:** Business Programs and Allied Health
    - **Calculus Pathway:** STEM programs
  - Expand Mathematics Pathways to Maryland High Schools
Anne Arundel Community College (AACC) has a partnership program with the local county High Schools targeting college readiness.

Dual Enrollment Developmental Mathematics Program
- Students earn high school graduation credit:
- Students earn AACC credit for college level developmental math:
  MAT 036: Foundations of College Algebra = FOCA Part 1
  MAT 037: Introduction to College Algebra = FOCA Part 2

Student benefits of the program:
- College transcript with grades for MAT 036 & MAT 037
- Skip College Math Placement Testing in Maryland
- Enroll directly in College Algebra at AACC, or a general education math course at other Maryland institutions
AACC College Algebra Pathway courses are taught in a computer intensive format known as Math FIRS$^3$T (A developmental math redesign that started in 2009).

Math FIRS$^3$T is . . .

- Focused
- Individualized
- Resources that
- Support Student Success with
- Technology
The high school classroom is transformed into a lab setting where lecture time is replaced with individual and small group instruction, thus encouraging a community of learners.

During class, students work on completing:

- Mastery-based Homework, Quizzes and Tests
- MyMathLab for School

The switch to virtual learning required additional support:

- EdReady’s Diagnostic Tools and Learning Resources
- Developed a Note-Taking Guide for EdReady study paths
MAT 036 – M3 HW2 Notes  

Graphing Linear Equations

1. Notes for Graphing Linear Equations: Write summary notes for the Presentation Video including vocabulary, strategies, steps, and/or sample problems.

   Louisa is working a summer job to purchase a computer. The Computer costs $900, and Louisa earns $12 per hour at her job. This problem helps visualize how many hours she will need to work to pay for her new computer.

   a) Why does the graph for this problem only occur in the 1st quadrant of the coordinate plane?

   b) What variable is represented on the x-axis?

   c) What variable is represented on the y-axis?

   d) What is the equation representing this problem situation?
2. Notes for Writing the Equation of the Line: Write summary notes for the Worked Example Videos including vocabulary, strategies, steps, and/or sample problems.

**Worked Example #1:**
A line has a slope of \(-\frac{3}{4}\) and goes through the point (0, 8).
What is the equation of this line in slope-intercept form?

**Worked Example #3:**
A line goes through the points \((-1, 6)\) and \((5, -4)\).
What is the equation of the line in slope-intercept form?
3. **Notes for Solving Systems by Graphing**: Click the **Topic Text**. Scroll down and find the information about **Graphing as a Solution Method**.

Look for the following Example in the **Topic Text**:

- **Example**: Find all solutions to the system \( y - x = 1 \) and \( y + x = 3 \).

- **Problem**:
  - a) How many solutions does this system of equations represent?
  - b) Mark the intersection point of the two lines on the graph and write the solution as an ordered pair.
  - c) Is it possible for the two lines to intersect twice?
Benefits of Adding EdReady to the Program

- Since EdReady is web-based, it eliminates Chromebook issues.
- Principals, Teachers, and Parents are pleased with the program.
- Students report positive attitudes towards learning math.

- Helps ensure time on task and motivates student success.
- Improves note-taking ability and organization.
- Learning how to succeed in college.
- Continuing to use EdReady and the Note-taking Guide to support in-person instruction.
EdReady at AACC

✔ EdReady is used in several Developmental Math FIRS$^3$T courses.
✔ Developing an EdReady Placement Prep Opportunity.
✔ Continuing Education uses EdReady for GED Prep Courses.
✔ EdReady also supports Students in the Nursing Program.
QUESTIONS?
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Thank you for joining us!

You will receive a link to the recording and presentation assets, also available at NROC.org.
Live monthly webinars on teaching with technology

Next up:

Refreshing Foundational Skills for Learners on Career Pathways

Thursday, April 7 at 3pm ET