BRIDGES TO ACADEMIC READINESS: SNAPSHOTS OF 2021 SUMMER PROGRAMS

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

- Use the "chat" area to submit questions 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, slides, and resources.
- Contribute to the Twitter conversation at #NROCPd.
- Do you need help with Zoom? Email memberservices@NROC.org.
Meet students where they are

free and low-cost technologies that support college & career readiness
Leaders like you partner with The NROC Project to imagine, develop, test, & refine technologies that improve learner readiness, retention, and success.
EdReady

EdReady is a math and English readiness system that employs a knowledge inventory to personalize a learner’s path to subject mastery within the context of a specific educational goal.
Community-Based Program to Spark and Support Middle / High School STEM Interest and Partner in the CSU Summer Algebra Institute
Audrey Thompson, The Engineer Factory, CA

Secondary / Postsecondary Partnerships: Summer Math Boot Camp
Henry Jackson & Elaine Schardien, Academic Success, Ocean County College, NJ

Summer Math Success Program for Dakota Promise Scholars
Selinea Moore-Allen & Dre Guy, Academic Resource Center, Pikes Peak Community College, CO

Summer Bridge Program for Incoming Freshmen
Scott Scardena and Salwa Zito, Academic Foundations, William Paterson University, NJ
Community-Based Summer STEAM Program for 5th – 12th grade students
The mission of the Engineer Factory is to strengthen the K-12 STEM education pipeline and increase the number of students from underrepresented populations (girls and students of color) who pursue higher education and careers in Engineering and STEM.

This is accomplished through: hands-on, project-based learning opportunities (STEM workshops); participation in engineering competitions; academic support; professional development for educators; exposure and linkages to the engineering industry; mentoring; strategic alliances and partnerships with engineering-related programs; and by awarding scholarships to deserving high school seniors.
Summer Program Goals

- Five-week program (June 21 – July 23, 2021)
- Strengthen math skills (student assessment, mitigate summer learning loss, and increase math proficiency)
- Introduce students to different types of engineering through hands-on, project-based learning. Computer Science program offering college credit to high school students.
- Growth Mindset--Encourage students to remain inspired and motivated
- Goal Enrollment: 30 Jr. STEAM; 50 Sr. STEAM students
- Virtual Program (possible hybrid with limited in-person activities)
- Have fun!
EF Summer STEAM 2018 (5th-8th grade)
EF Summer STEAM 2019 (8\textsuperscript{th}–11\textsuperscript{th} grade)
Virtual EF Summer STEAM 2020 (5th-8th grade)

EdReady Math program enthusiastic Mrs. T, and the hands-on projects —Parent
These Six Flag Commercials are AWESOME!
EF Summer STEAM 2021 Planned Activities

- Summer STEAM Jr. (rising 5th – 7th grade)
- CSU Summer STEAM Sr. (rising 8th – 12th grade)
Math Instruction

- “Live” instruction by credentialed math instructor (Sr. STEAM) - via Zoom
- EdReady (Jr STEAM & Sr STEAM)
- Qualified 11\textsuperscript{th} and 12\textsuperscript{th} grade students invited to take college credit Math class at LA Southwest College
- College student Math Coaches from the CSU MSTI program
EdReady Math Achievements (2018-2020)

- The assessments allowed us to provide students and families with a snapshot of where their students were in math.
- An average of 75% of our students demonstrated an improvement in math proficiency.
- Some students improved more than 50 points!
- EdReady enabled students working at their own pace to pursue higher levels of math.

❖ There was a direct correlation between time spent on EdReady and increased math proficiency!
STEAM Projects (Jr. STEAM)

- Introduced to civil, electrical, structural and mechanical engineering
- Hands-on projects students get to keep!
- Learned the science behind each project
- Demonstrate practical application of math in engineering
STEAM Project (Sr. STEAM)

- We are partnering with Piper and their maker computer science program.
- Piper includes five level program that includes laptop construction, circuitry, sensors and coding.
- Piper and UCSD will offer students pre-college credits for completing the five level program.
- Important because no IUSD school offers any computer science classes.
Aerospace Engineering with Lockheed Martin!

- Weekly presentations by Lockheed Martin engineers
- Will introduce students to aerospace and other types of engineering
- Fun hands-on projects
College Prep Activities

- Virtual College Tour
- Review A-G requirements
- Intro to different types of colleges (universities, community colleges, HBCUs)
- Discussion of financial aid
Inspiration and Growth Mindset

- Tools to remain positive in challenging times
- Adopting a “Mamba Mentality”
- Growth Mindset—nothing you can’t do if you put your mind to it and are willing to put in the work!
- Build STEM-confidence
- Cultural relevance of STEM
  - Helping students recognize their own power to change the world!
Thanks to our partners!
Contact us!

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(310) 625-3710

Ariana Thompson, Associate Camp Coordinator
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The New Wave in Virtual Boot Camp
Reaches the Shore at OCC

July 2021

Dr. Henry Jackson hjackson@ocean.edu
Elaine Schardien eschardien@ocean.edu

Academic Success
2021 PPCC Summer Math Success Sessions

SELINA MOORE-ALLEN Selinea.Moore-Allen@ppcc.edu
DRE GUY Dre.guy@ppcc.edu

PPCC DAKOTA PROMISE PROGRAM
We represent a diverse community and family here at PPCC!

- First-Time-Anywhere students /High school graduates in the last year
- Students who live in economic-challenged areas of Colorado Springs
- Multicultural students
- Students with disabilities
Success Math Sessions In Two Phases

PHASE 1: MANAGING MATHEMATICAL ATTITUDE

PHASE 2: EDREADY MATH SKILL BUILDING
Phase 1: Coaching students through stereotypes and breaking down barriers that get in the way of success.

Stanford University Study by Dr. Jo Boaler: How to learn math for students

- [https://lagunita.stanford.edu/courses/Education/EDUC115-S/Spring2014/about](https://lagunita.stanford.edu/courses/Education/EDUC115-S/Spring2014/about)
- [https://www.youtube.com/watch?v=qD5QR5R6b8E](https://www.youtube.com/watch?v=qD5QR5R6b8E)
Phase 2
EdReady Math
Skill-building

NROC Project provides Open Educational Resources and tools to help students succeed in English and Math

Success Math Sessions consist of 3 levels of EdReady Goals.

https://ppcc.edready.org
1st Week of Math Attack continued...

Students participate in Stanford University Study: How Students Learn Math

Success Coaches introduce different learning styles:
- Kinesthetic, Visual, Audio, Read and Write.
- Let Students decide for themselves.

Students participate in an EdReady Pre-Test

| 0-4 questions correct place in Level 1: Beginning Algebra (EdReady Math) | 5-7 questions correct place in Level 2: Intermediate Algebra (EdReady Math & College Math Readiness) | 7-10 questions correct place in Level 3: College Algebra Prep (EdReady College Math Readiness) |
Topics and activities offered in REMOTE or HIFLEX classroom options

- Lecture over one or two topics a day from the pretest questions
- Hands-on activities for topics covered in lecture with EdReady skill-building
- Graphing Calculator Course
- Expand Note-Taking Skills
- Six ways to reduce math anxiety
- Student Success Coaches help navigate college success
Success Coaching

Dakota Scholar Benefits

- Access to Desktop Computers & Laptops
- Earn a $100 Stipend upon completion
- Math Tutoring
- DKP Success Coaches

Success Coaching is Designed to:

- THE ENROLLMENT FOR MATH CLASS PROCESS
- TRANSITION TO COLLEGE
- ACADEMIC SUCCESS

Success Coaches Communicate Frequently by:

- Text
- Email
- Phone
Let’s talk about it...

Continue the conversation at “Office Hours” with the panelists on Monday, March 22 at 3pm ET. Registration link will be included in your follow up email.
Special thanks to our panelists!

Audrey Thompson, 
The Engineer Factory

Dr. Henry Jackson & Elaine Schardien, 
Ocean County College

Selinea Moore-Allen & Dre Guy, 
Pikes Peak Community College

Salwa Zito & Scott Scardena, 
William Paterson University

Thank you for joining us!

You will receive an email link to the recording and presentation assets, also available at NROC.org.