Completion by Design:
NROC to Support Initiatives at Central Piedmont Community College

Presented by instructors from the Mathematics Division:

Meagan McNamee
Discipline Chair

Kydia McCoy
Program Coordinator

Melissa Granados
Curriculum Coach

Thanks for joining us! We will begin promptly at 2pm ET.

• Use the “questions” area to submit questions as they arise.
• This webinar will be archived at http://NROCnetwork.org.

Need help accessing? Please email: memberservices@theNROCproject.org.
The NROC Project (NROC) is a community-guided, non-profit project focused on new models of digital content development, distribution, and use.

NROC is funded by The William and Flora Hewlett Foundation, the Bill & Melinda Gates Foundation, and most importantly by NROC members across the country.

We are education leaders who believe in open and equal access to education and the power of media to personalize learning.
NROC Content & Applications to Impact College & Career Readiness

THE NROC COURSE LIBRARY

NROC members receive institutional rights of use to our entire course library, including:

NROC Algebra 1
An Open Course
NROCmath.org

NROC Developmental Math
An Open Program
NROCmath.org

NROC Developmental English
An Integrated Program
(2015) NROCenglish.org

OPEN TOOLS FOR PERSONALIZED LEARNING

HippoCampus
Powered by NROC

EdReady
Powered by NROC

NROC offers HippoCampus.org and EdReady.org as free tools for individual use, as well as customized and branded versions for NROC members.
Goal: Increase the number of students prepared with math skills for college or career. Create an efficient path to mastery.

Audience:
- High school and college students who have struggled with math and require review
- Developmental students
- Students who are preparing for college entrance assessments
- Flexible use-cases: course redesign, flipped classrooms, labs, tutoring centers
- Stand-alone or supplemental
NROC Developmental Math – An EdReady Content Foundation

**Topic areas:** Modules for Arithmetic, Beginning Algebra, Intermediate Algebra with topics in Geometry, Statistics & Trigonometry

**Instructional elements:**

At the topic level (97 Topics):
- warm-up (text)
- presentation (video, audio, animation, and graphics)
- worked examples (audio and graphics)
- problems (interactive text)
- review (text)
- text tab (online textbook)

At the unit level (19 Units):
- virtual tutor (interactive video, graphics, text)
- project (text and graphics)
- puzzles (game-based, interactive animation, graphics)
- unit-level assessments (*including optional diagnostic pre-assessment*)

Over 350 explicit learning objectives to allow fine-grained assessment.
Meeting our mission… NROC supports individual learners at public EdReady.org

Get ready for college and career!

EdReady lets you assess your readiness for college math, see study options, and get a personalized study path to fill in knowledge gaps.

Get Started

Don’t miss the two-minute video overview on the home page!
EdReady: NROC Member Benefits

• Create Goals Meaningful to YOUR Students
• Customize the Scope of Related Diagnostic Assessments
• Select and Prioritize Content Interventions
• Access Data for Planning and Evaluation
Get ready for college and career

This paragraph and the header above can be customized with the message of your choice. The homepage can be used to help your students understand why they're being asked to use EdReady.

Enter As Guest

This text can also be customized. It can accept html (such as links, email addresses, and images).
What do you want to be ready for?

EdReady will help you prepare for college and career goals. Work with your instructor to choose a goal below and get started!

Your goals

- Accuplacer Preparation
- GED Math Readiness
- I'm Ready. What's Next?

- Math for Nurses
- College Math Readiness
Radical Expressions and Quadratic Equations

Recommended study time: 6 hours

Mastered topics: 0 of 12

Topics you need to study in this unit:

- **Roots**
  Recommended study time: 30 minutes
  Status: Needs Review

- **Squares, Cubes, and Beyond**
  Recommended study time: 30 minutes
  Status: Not Ready
Congratulations!
You have completed your study plan and reached your target score of 80.

What's next?
Choose a different assessment to master (if available).
Continue studying and improve your score.
Visit your account page.
EdReady features comprehensive, real-time reporting for teachers and administrators. This provides opportunity for early intervention to support student success.
## Math Readiness

### Overview

Data last updated: 10/14/2014 21:52

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Imagine the Possibilities...

A closer look at member use cases

college placement prep

HS/college bridge programs

contextualized career and technical programs

co-requisite models

math labs/learning centers

alternative and adult (ABE) education

summer credit recovery (K12)

accelerated learning

emporium model

flipped classrooms

independent, self-paced study
Central Piedmont Community College

- Based in Charlotte, NC
- Provides courses on six campuses
- Approximately 75,000 students
Central Piedmont Community College Completion by Design

- Dedicated to increasing completion rates while maintaining access and quality.
- The initiative identifies points of loss and momentum along a student's pathway.
- Three current areas of focus:
  - Structured Programs of Study.
  - Proactive Advising.
  - Continuous Bridge.
- CPCC partnered with NROC to provide Bridge, Multiple Measures, and new students with digitally-based supplemental instruction and preparation for placement testing.
CPCC Math Prep Expressway
Current NROC/EdReady Focus:

- **High School Partnerships** – Melissa Granados
- **NC DAP Placement Test Prep** – Kydia McCoy
- **Supplemental Math Labs** – Meagan McNamee
Central Piedmont Community College

High School Partnerships
Melissa Granados
CPCC Math Prep Expressway
High School Partnerships:

- **EdReady** is currently used to provide support for

  - Math I, II, & III
  - Foundations of Math I & II.
CPCC Math Prep Expressway
High School Partnerships:

Goal:

✓ Provide prospective CPCC Students, enrolled in HS, with access to placement test prep materials.
✓ Increase the number of HS students that receive dual credit for math courses.
✓ Decrease the number of Dev Math courses that recent HS graduates are required to take upon transitioning to CPCC.
CPCC Math Prep Expressway
High School Partnerships:

- **EdReady Course Creation:**
  - Meet with HS Administrators/Teachers.
  - HS Teachers select **EdReady** learning objectives based on areas of student deficiency.
  - Goals/courses are created and personalized with specified learning objectives.
CPCC Math Prep Expressway
High School Partnerships:

- Ways HS Teachers are Using EdReady:
  - Lab component during class time
  - Break-out sessions for teacher-identified students
  - Remediation sessions
  - After school programs
CPCC Math Prep Expressway
High School Partnerships:

**Benefits:**

- High school *teachers* gain access to a quality-filled and media-rich supplement.
- High school *students* are better positioned to be prepared for the NC DAP and to earn dual credit through the Career and College Promise program.
CPCC Math Prep Expressway
High School Partnerships:

- **More Benefits!**
  - High school *principals* are better positioned to allow higher performing juniors and seniors to satisfy their 3rd or 4th year math requirements at the community college.
  - **Colleges** gain FTE and have contributed to decreasing the need for developmental studies for incoming students.
Questions?

Questions on our uses of EdReady with our High School Partnerships?
CPCC Math Prep Expressway
NC DAP Placement Test Prep:

- It is the College’s commitment to provide quality-filled opportunities that will assist students in becoming college and career ready.

- With EdReady we have developed Placement Test Prep Assessments to better prepare students for the math portions of the college’s placement test.
Through our First Year Experience department students acquire important information about the College and all of the services that are in place to promote their success while at the College.

- Placement Test Prep (Math)
  - EdReady Student Registration and Log In &
  - EdReady Initial Assessment
CPCC Math Prep Expressway
NC DAP Placement Test Prep:

What do you want to be ready for?
Students must master advanced skills in mathematics, science, and technology to stay on track for college and for promising careers... CPCC and EdReady will help you get there!
Placement test prep is offered in a modular format:
- Modules 010-060

Satisfactory completion of EdReady is used to determine NC DAP (math) retake eligibility.
- 80% is the target score
CPCC Math Prep Expressway
NC DAP Placement Test Prep:

Placement Test Prep - Mathematics
Let's begin working on achieving your career and college goal!

Note: We encourage you not to use calculators when working in EdReady... calculator usage is limited when taking the actual placement test.

Module 1 (Operations with Integers) PTP
Module 2 (Fractions and Decimals) PTP
Module 3 (Proportions, Ratios, Rates and Percents) PTP
Module 4 (Expressions, Linear Equations and Inequalities) PTP
Module 5 (Graphs and Equations of Lines) PTP
Module 6 (Polynomial and Quadratic Applications) PTP

CENTRAL PIEDMONT COMMUNITY COLLEGE
After students reach their target score (80%) on each module in the assessment, they will be directed to **Testing & Assessment Center** for scheduling of the college’s placement test.
Questions?

Questions on our uses of EdReady with NC DAP Placement Test Prep?
Central Piedmont Community College

Supplemental Math Lab
Meagan McNamee
Students place directly into college level math courses if the following conditions were satisfied in High School:
- Graduated within the last 5 years.
- Have an unweighted GPA of 2.6 or higher.
- Completed 4 math courses from an approved list.
Supplemental Math Lab Course is required for students that place directly into courses with Multiple Measures waiver and have a GPA of 2.6-3.0.

Courses requiring SML - MAT 152(Statistics) and MAT 171(Precalculus Algebra).

SML course will be a co-requisite course MAT 001- S or P. Semester long course: 1 credit, 2 lab/contact hours.
NROC Math Courses
Adaptable in Your LMS
CPCC Supplemental Math Lab

- Using **PreAssessment** version of **NROC Developmental Math** material – only including most crucial pre-requisite topics determined by faculty.
Unit 12: Factoring

Lesson 1: Introduction to Factoring

Lesson 2: Factoring Polynomials

Lesson 2: Solving Quadratic Equations

Unit 12 Map

Tutor Sim: Playing the Elimination Game

Puzzle: Match Factors

Team Project: Making Connections

Unit 12 Quiz - Form A
CPCC Supplemental Math Lab

The Unit Map shows all of the Topics in this unit. The Topics are organized into groups and listed below Lesson headings. You can click on any Topic name to take that Topic.

- **Introduction to Factoring**
  - Greatest Common Factor

- **Factoring Polynomials**
  - Factoring Trinomials
  - Factoring Special Cases
  - Special Cases: Cubes

- **Solving Quadratic Equations**
  - Solve Quadratic Equations by Factoring

Key:
- **Not Started**
  - You have not started the Topic.
- **Not Completed**
  - You started the Topic but have not passed the Review.
- **Mastered**
  - You completed the Topic and passed the Review.
- **Passed**
  - You tested out of the Topic in the Pre-Assessment.
CPCC Supplemental Math Lab

Unit Map / Greatest Common Factor

Greatest Common Factor

You can start by clicking on Warm Up to see if you are prepared to take this topic. When you are ready, work through the Presentation, Worked Examples, Topic Text and Practice problems. Then, take the Review to test your understanding of this topic.

Upon completion of this topic, you will be able to:
- Find the greatest common factor (GCF) of monomials.
- Factor polynomials by factoring out the greatest common factor (GCF).
- Factor expressions with four terms by grouping.

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Monterey Institute for Technology and Education 2014
CPCC Supplemental Math Lab

- Piloted this semester (Spring 2015)
  - MAT 001P co-requisite courses for Precalculus
  - NROC material is assigned weekly
    - Just in time remediation to correlate with Precalculus topics learned each week.
    - Students will work on NROC material before class.

- During class – mix of lecture and collaborative activities
  - Some discussion of material in NROC.
  - Group work – activities related to Precalculus material for the week.
  - Study skills sessions.

- Future plans – MAT 001S (for MAT 152-Statistics) in Fall 2015.
Questions?

Questions on our uses of NROC with our Supplemental Math Lab?
CPCC Prep Expressway

Coming soon:

- SAT, ACT and TEAS Prep (Test of Essential Academic Skills for Health Care Careers) – EdReady

- NC DAP DRE Prep (English and Reading Placement Test)
Contact Information:

High School Partnerships
Melissa Granados – Curriculum Coach
melissa.granados@cpcc.edu

NC DAP Placement Test Prep
Kydia McCoy – Program Coordinator
kydia.mccoy@cpcc.edu

Supplemental Math Labs
Meagan McNamee – Discipline Chair
meagan.mcnamee@cpcc.edu
Special thanks to our presenters!

This webinar will be archived at NROCnetwork.org. All are invited to continue the conversation at the community there.

Mark your calendars for the next webinar in this series:
Friday, April 17th at 3pm ET with Jacksonville State University (AL) FastForward Algebra: Teaming Up to Support Student Progress

Learn more about EdReady, NROC Math and more at http://theNROCproject.org